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DARPAN THE MIRROR OF DCI Issue 15|September 2022







http://dredge-india.com

Har Ghar Trianga Celebrations in DCIL

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Dredging Corporation of India employees joins the Nation in celebrating Har Ghar Tiranga Campaign in DCIL to commemorate 75 Years of Independence under the theme Azadi Ka Amrit Mahotsav.



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Captain S Divakar, MD & CEO, (A/C) DCIL appraised Shri Sarbanada Sonowal Hon'ble Union Minister of MoPSW

Captain S Divakar, MD & CEO, (A/C) DCIL greeted Shri Sarbananda Sonowal Honourable Union Minister of Ports Shipping & Waterways and appraised the overall progress of DCIL.

Visakhapatnam Port Authority Awards Sand Trap Dredging Contract to DCIL

Visakhapatnam Port Authority has awarded 57.0 CR Sand Trap Dredging Contract for the year 2022-23, 2023-24 & 2024-25 to Dredging Corporation of India Limited.



Shri Madhu S Nair, CMD, Cochin Shipyard Limited



JOUNNEY OF CONSTRUCTION OF INDIA'S INDIGENOUS AIRCRAFT CARRIER INS VIKRANT



he Journey of the construction of the INS
Vikrant was truly mesmerizing. There was
always the question of what next after the
decommissioning of erstwhile Vikrant, this
nurtured the idea of a truly home-grown
Indigenous Aircraft carrier. Many thinkers in
Indian Navy even before the decommissioning of
erstwhile INS Vikrant sensed the void that will be
created with the retirement of Vikrant. So Navy
during 1988 signed with DCN of France a
contract for assistance in the concept design of a

SCS (Sea Control Ship) and also undertook an audit of M/s Cochin Shipyard Limited (CSL) – for its capabilities in building the carrier. An Indian Naval Design and Liaison Team (INDLT) of naval architects were deputed to DCN in 1989 for participating in the design process, ascertaining major areas of design work to be entrusted to the selected consultants, and for auditing CSL. A team from Brest Shipyard, France deputed to Kochi in 1989, to perform the audit concluded that CSL undeniably had the potential for constructing the carrier subject to requisite infrastructure augmentation.

ochin Shipyard received a Letter of Intent (LoI) from the Ministry of Defense (MoD) in 1999 to begin preliminary construction. These specifications required a carrier with an overall length of around 250 meters and an ideal launch runway of about 200 meters. An ADS (Air Defense Ship) variant with a displacement of 37,500 tones and the ability to fly 20–22 tones aircraft was therefore conceptualized.

DARPAN THE MIRROR OF DCI

Inally, the design of a full-fledged carrier was approved by CCS in 2002. Based on the first government approval, a draft contract on design and pre-production activities of the ADS was forwarded by Naval Headquarters to CSL in 2000. Steel cutting, which signifies the start of production, commenced in 2005 and the 'Indigenous Aircraft Carrier' was conceived. The 'keel' of the ship was laid in 2009. The ship was ceremoniously launched on 12 August 2013.



NS Vikrant's construction did not go as easily as the CSL had hoped because of a number of issues that needed to be resolved, including the scarcity of steel, which delayed the start of fabrication by nearly three years. Due to the lack of timely availability of binding data and the delayed supply of equipment, design and detailed engineering were delayed by many years. The contract for conclusion

of aviation facility design also took considerable time. The final stages of the project were severely impacted by the outbreak of the pandemic COVID19 which impacted the supply chain as well as the progress of on board works. The nation and the yard are now much stronger than they were before because of all these obstacles, the project has become a platform for developing Indigenously technology.

To overcome the challenges mentioned above the mantra adopted was Atmanirbharta. The steel plates for the entire ship was 'Made in India' by the Steel Authority of India.

Similarly, various engineering auxiliaries, weapons, sensors, deck and electrical machinery, the entire power distribution system and niche technologies such as the Electronic Warfare System, the Combat Management System, their related networking equipment have all been designed and manufactured in India.

WHETHER IT IS PUBLIC SECTOR GIANTS LIKE BEL, HAL, BHEL, KELTRON OR PRIVATE INDUSTRY PARTNERS LIKE TATA POWER, L&T (TO NAME A FEW) — INDIA WOULD BE PROUD OF THEIR CONTRIBUTION.

Over 100 MSMEs including some which took birth as part of Start-Up India contributed immensely not only towards shipbuilding but to the local economy too. The project has generated indirect employment to approximately 40,000 Indians and is responsible for direct employment to over 2,000 personnel daily.

he following are some of the distinct features of Vikrant. The ship's cables span 15 decks and around 2,300 compartments, covering a distance of about 2,400 miles, or a little bit more than the flight distance between Kochi and New Delhi.

he ship has used around a lakh square meters of insulation material. The IAC is a technological marvel without any precedence in the country, with more than 30,000 internal sensors, vast optical fiber cable-backed networks with numerous redundancies, and remotecontrolled valves dispersed throughout the ship. Eight enormous power generators that could power an entire town power the ship. An extensive network delivers the substantial power to each and every ship compartment.

THE VESSEL DESIGNED FOR 28 KNOTS IS PROPELLED WITH THE HELP OF FOUR 22 MW GE LM-2500 GAS TURBINES AND TWO CONTROLLABLE PITCH PROPELLERS HAVING DIAMETER OF 6 METERS.

AFTER FIVE SUCCESSFUL **SEA VESSEL** WAS TRIALS, THE INDUCTED INTO TO THE NAVY BY THE HON'BLE PRIME MINISTER NARENDRA MODI ON 2ND SEPT 2022. INS VIKRANT IS MARVELOUS EXAMPLE OF WHAT **HUMAN ENDEAVORS CAN ACHIEVE** WHEN THERE IS A SHARED VISION AND GOAL. THE PASSION AND DETERMINATION DEMONSTRATED BY

ALL THE STAKEHOLDERS SUCH AS INDIAN NAVY, CSL, OEM'S, MSME'S, CONTRACTORS ETC WAS TRULY COMMENDABLE. AS IT IS WELL KNOWN THAT LEGENDS ARE NOT BORN- BUT THEY ARE CREATED, I AS CMD-CSL CAN SAY WITH PRIDE THAT VIKRANT HAS ONLY BEEN CREATED BY THE SPIRIT OF HUMANS INVOLVED IN THIS PROJECT.

Shri P. Srihari, Manager (IT)



Types of Cybersecurity

ybersecurity can be categorized into five distinct types: Critical infrastructure security, Application security, Network security, Cloud security, Internet of Things (IoT) security to cover all of its bases, an organization should develop a comprehensive plan that includes not only these five types of cybersecurity, but also the three components that play active roles in a cybersecurity posture: people, processes and technology.

PEOPLE

et's face it, no matter what precautions you put into place, if people don't follow the rules, you're still at risk. The saying "you're only as strong as your weakest link" comes to mind. In most cases, human error is just that – a mistake. Most people aren't intentionally bypassing security protocol – they either aren't trained to do so, or they aren't educated about the significance of their actions.

onducting security awareness training and reinforcing the most basic cybersecurity principles with employees outside of the IT department can make a big difference in your company's security posture.

CYBER SECUITY

HERE ARE FIVE WAYS THE HUMAN FACTOR CAN INCREASE YOUR CYBERSECURITY RISK:

uspicious **URLs** and Emails: Explain to employees that if something looks strange it probably is! Encourage staff to pay attention to URLS, delete emails that don't have content or look like they are coming from a spoofed address, and stress the importance of guarding personal information. As the IT professional, it's your responsibility to raise awareness of potential cybersecurity threats.

PASSWORD IDLENESS: We know that holding on to the same password for ages isn't a great idea. But, Bob in finance may not understand that. Educate employees about the importance of frequently changing passwords and using strong combinations. We all carry a plethora of passwords and since it's a best practice not to duplicate your passwords, it's understandable that some of us need to write them down somewhere. Provide suggestions on where to store passwords.

ersonally Identifiable Information: Most employees should understand the need to keep personal browsing, like shopping and banking tasks, to their own devices. But everybody does a bit of browsing for work, right? Emphasize the importance of keeping an eye on what websites may lead to others. And, that includes social media. Karen in customer service may not realize that sharing too much on Facebook, Twitter, etc. (like personally identifiable Instagram, information) is just one way hackers can gather Intel. Backups and Updates: It's fairly easy for an unsavvy tech consumer to go about their daily business without backing up their data regularly and updating their system's anti-virus. This is a job for the IT department. The biggest challenge here is getting employees to understand when they need your help with these items.

hysical Security for Devices: Think about how many people in your office leave their desk for meetings, gatherings and lunch breaks. Are they locking their devices? Highlight the need to protect information each and every time a device is left unattended.

ou can use the airport analogy. Airport staff are constantly telling us to keep track of our bags and never leave them unattended. Why? Well, because you just don't know who is walking by.

Encourage employees to protect their devices with as much care as they protect their baggage. When employees outside of the IT department are trained, IT pros can focus on process.

processes by which Cybersecurity professionals go about protecting confidential data are multi-faceted. In short, these IT pros are tasked with detecting and identifying threats, protecting information and responding to incidents as well as recovering from them. Putting processes into place not only ensures each of these buckets are being continuously monitored, if cybersecurity attacks happen, referencing a well-documented process can save your company time, money and the trust of your most valuable asset - your customers. The National Institute of Standards and Technology (NIST) under the U.S. Commerce Department has developed the Cybersecurity Framework for privatesector companies.

he standards were compiled by

NIST after former U.S. President

Barack Obama signed an

executive order in 2014. It's a great resource
to use as you work to combat your
cybersecurity risk.

Shri H. Shridhar D, 2nd Officer



DCI'S ROLE IN INDIA'S FIRST INDIGENOUS AIRCRAFT CARRIER INS VIKRANT



he Prime Minister, Shri Narendra Modi on 02nd September commissioned the first indigenously designed and built aircraft carrier INS Vikrant at Cochin Shipyard Limited here in Kochi — a significant step of the Central government towards self-reliance in the defense sector.

"TODAY, HERE ON THE COAST OF KERALA, EVERY INDIAN IS WITNESSING THE SUNRISE OF A NEW FUTURE. THIS EVENT HELD ON INS VIKRANT IS A TRIBUTE TO INDIA'S RISING SPIRITS ON THE WORLD HORIZON," THE PRIME MINISTER SAID. "VIKRANT IS HUGE AND SPECIAL. VIKRANT IS NOT JUST A WARSHIP. THIS IS A TESTIMONY TO THE HARD WORK, TALENT, INFLUENCE AND COMMITMENT OF 21ST CENTURY INDIA."

Designed by the Indian Navy's in-house Warship Design Bureau (WDB) and built by Cochin Shipyard Limited, a Public Sector Shipyard under the Ministry of Ports, Shipping and Waterways, Vikrant has been built with state-of-the-art automation features and is the largest ship ever built in the maritime history of India. INS Vikrant, built at the cost of around Rs 20,000 crore, successfully completed its fourth and final phase of the sea trials last month. With the construction of 'Vikrant', India has joined a select group of nations having the niche capability to indigenously design and build an aircraft carrier.

The commissioning of India's first indigenous aircraft carrier is a momentous occasion during the 'Amritkaal of India's 75 years of independence and signifies the country's confidence and prowess. This indigenous aircraft carrier is proof of the country's technical acumen and engineering skills.

This demonstration of India's self-sufficiency to produce an aircraft carrier warship will reinforce the country's defense indigenization programs and 'Make in India' campaign.



ROLE OF DREDGING CORPORATION OF INDIA

he role of Dredging Corporation of India Itd is also important in this project. As initial depth was not enough to berth the vessel. The draft of INS Vikrant is 8.40mtrs. Initial depths were approximately 4mtrs to 5 mtrs.

DEPLOYMENT OF TSHD BY DCI

CI deployed Trailer Suction Hopper Dredgers for carrying out dredging operation at berth and its approaches. It is to carry out dredging operations 24 hours cycle, day and night. In trailer Suction Hopper Dredger, two suction tubes are placed to suck the material from the bottom with the help of two Dredge Pumps (port and stbd).

DCI DREDGER DURING DREDGING OPERATION



he material to be filled in the hopper and required capacity around 7500 cubic metre volume and quantity approximate 5000 tons (calculation for one dredger)and after traveling at a distance of 14 NMiles (25KM) and material to be dumped as per cochin port designated dumping area.

fter washing hopper and again reaching to dredging ground for dredging and pick the material so that depth will increase. It is to take 3.5 to 4 hours for one cycle that is from dredging ground to dumping and to dredging ground. For one day the about to take 4 to 5 loads about carrying approx 20,000 tons to 22,000 tons of material to dumping site by initiating to increase the depths at berth and approaches to the berth.

hus the depths were increased from 5 mtrs to 11 metres (required depth) as per Shipyard requirement. In front national integrity and pride concerned whenever required as per shipyard and Indian navy, dredgers are deployed for dredging. All the time projects were completed in stipulated time and required depths are achieved.

IT IS AN EXAMPLE OF DEDICATION, PASSION, COORDINATION AND TEAM WORK BETWEEN HEAD OFFICE, PROJECT OFFICE KOCHI TEAM AND DREDGER ONBOARD SHIP STAFF. WITH THIS PASSION, HARD WORK, TEAM WORK DCIL COMPLETED LOT OF PROJECTS IN TO THE TIME AND CONTRIBUTED NATION, **FULFILLING ITS** LONG STANDING PROMISE "DREDGING FOR **DEVELOPMENT**"



DCI 76th Independence Day Celebrations



Captain S Divakar, MD & CEO, (A/C), DCIL hoisted the National Flag at DCI Head Office



Captain S Divakar, MD & CEO, (A/C), DCIL Addressing the Employees on the occasion of 76th Independence Day Celebrations at DCI Head Office

Capt S Divakar, MD & CEO, (A/C), DCIL addressing session on 13th Annual Dredging Conference





DARPAN THE MIRROR OF DCI

Prize Distribution to the winners during Independence Day Celebrations













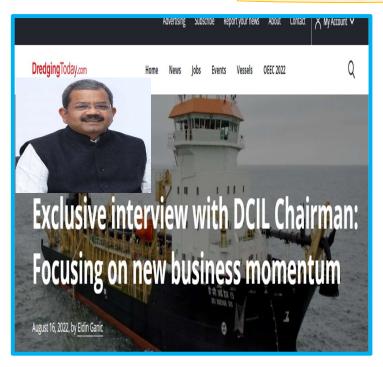








International Print Media interactions



Exclusive Interview with DCIL Chairman Shri K Rama Mohana Rao on focusing DCI New Business Momentum with International Magazine Dredging Today.

QUESTION PLEASE TELL US ABOUT THE NEW INCUMBENT IN THE POST OF MD & CEO OF DCIL?

ANSWER

CAPT S.DIVAKAR, CHIEF GENERAL MANAGER WHO HAS TAKEN OVER THE ADDITIONAL CHARGE OF MANAGING DIRECTOR & CHIEF EXECUTIVE OFFICER OF DCIL, STARTED HIS CAREER IN DCI AS A CADET IN THE YEAR 1987 AND SERVED ONBOARD DREDGERS IN DIFFERENT CAPACITIES ABOUT 22 YEARS FROM CADET TO CAPTAIN AND ROSE TO THE POSITION OF "MASTER OF DREDGER". ON GAINING RICH KNOWLEDGE AND EXPERIENCE ON COMPLETE OPERATIONS OF DIFFERENT TYPE OF DREDGERS, HE JOINED IN SHORE SERVICE AND SERVED FOR ABOUT 12 YEARS IN SENIOR MANAGEMENT LEVEL. HAVING WORKED FOR 34 YEARS IN BOTH ONBOARD DREDGERS AS WELL AS ONSHORE IN RESPONSIBLE POSITIONS, GAINED UNIQUE EXPERTISE OF BOTH OPERATIONS AS WELL AS TECHNO COMMERCIAL ASPECTS OF BUSINESS ACUMEN.

QUESTION WHAT STEPS ARE YOU PLANNING TO TAKE TO REGAIN THE TRUST OF YOUR CLIENTS?

ANSWER

DCI IS IN SERVICE SECTOR AND THE STEPS UNDERTAKEN IN THE LAST 10 DAYS HAVE HELPED IN BRINGING BACK THE LOST MOMENTUM BACK TO DCI AND WINNING THE CONFIDENCE AND TRUST OF OUR CLIENTS. FURTHER, I WOULD LIKE TO ADD HERE THAT REGULAR REVIEW MEETINGS HAVE BEEN CONDUCTED TO MONITOR & ENHANCE THE DREDGER PERFORMANCE 24 X 7 AND THERE IS A NEW ZEAL AMONG THE EMPLOYEES WHO WOULD NOW LIKE TO PLAY AN IMPORTANT PART OF THIS CHANGING WORK CULTURE IN SHAPING NEW CORPORATE LANDSCAPE OF DCI BY WORKING 6 DAYS A WEEK.

QUESTION PLEASE TELL US SOMETHING ABOUT THE MARKET FLUCTUATIONS OF DCIL SHARE OVER THE PAST

FEW MONTHS?

Answer I am happy to inform that the uncertainty is over and DCIL has bounced back more

Strongly and it is now business as usual in the organisation. The positive steps taken in the last $10\,\text{days}$ have regained the investors' confidence in DCIL. DCI share that was trading around Rs $250\,\text{plus}$ in the starting of this month has moved to Rs 272. This is the proof that DCI fundamentals are very strong and now DCI is on the growth

TRAJECTORY.

QUESTION HOW ARE YOU PLANNING TO TACKLE THE HUGE FUEL ESCALATION COSTS IN THE RECENT PAST

WHICH IS BADLY AFFECTING THE MARGINS OF DCIL?

Answer In DCIL total turnover the expenditure on Fuel is around 40% and lately with huge

ESCALATION OF FUEL PRICES GLOBALLY I HAVE REQUESTED THE MINISTRY FOR AN AMENDMENT IN FUEL VARIATION CLAUSE WITH ALL THE MAJOR PORTS. THIS WILL HELP DCI IMMENSELY TO COMPENSATE THE PRESENT FUEL ESCALATION WITHOUT INCURRING LOSSES ON ACCOUNT OF FUEL

ESCALATION.

QUESTION WE DO UNDERSTAND THAT THE CURRENT LIQUIDITY POSITION OF DCIL IS VERY CHALLENGING?

WHAT IMMEDIATE MEASURES ARE YOU PLANNING TO TAKE FOR EARLY RESTORATION OF DCIL

FINANCIAL STABILITY?

ANSWER I HAVE TAKEN IMMEDIATE STEPS TO IMPROVE THE FINANCIAL STABILITY TO DCIL. I AM HAPPY TO

INFORM YOU THAT VISAKHAPATNAM PORT TRUST & PARADIP PORT TRUST HAVE AGREED TO INFUSE RS 50 CRORE EACH TO DCIL IN FORM OF WORKING ADVANCE WHILE NEW MANGALORE PORT AUTHORITY AND DEENDAYAL PORT AUTHORITY MAY ALSO AGREE TO EXTEND RS 100 CRORE

EACH AS WORKING ADVANCE TO DCIL.

QUESTION IT IS LEARNT THAT DCIL HAD OUTSTANDING RECEIVABLES FOR APPROXIMATELY 100 PLUS

CRORES FROM VARIOUS PORTS AND DEPARTMENTS. WHAT ACTION ARE YOU PLANNING FOR

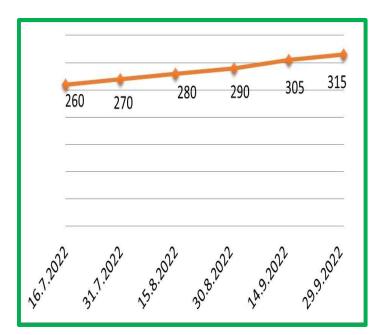
FAST REALIZATION OF THESE RECEIVABLES?

ANSWER IT IS TRUE THAT DCIL HAS TO REALIZE REASONABLE BILL RECEIVABLES FROM THE MARKET AND I

HAVE INSTRUCTED FINANCE DEPARTMENT OF DCIL TO IMMEDIATELY PREPARE AN ACTION PLAN

AND STRINGENTLY FOLLOW UP WITH PORTS FOR PENDING BILL RECEIVABLES.

DCI Share Price as on 1st July 2022 to 30th September 2022



Shri K Rama Mohana Rao, Chairman, DCIL interview to The Hindu on DCIL remarkable turnaround.



Print Media Coverage of DCI Sand Trap
Dredging Contract Award from
Visakhapatnam Port Authority.

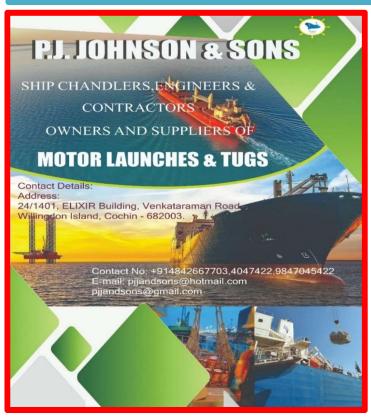
Print Media Coverage of Capt S Divakar, MD & CEO, (A/C), DCIL Independence Day Speech.





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DREDGING CORPORATION OF INDIA LIMITED VISAKHAPATNAM

ADVERTISEMENT NO - 01/2022

Dredging Corporation of India Limited requires Dredge Cadets, Trainee Marine Engineers, and Near Costal Voyage Trainees (GP Rating) on contract basis:-

01	DREDGE CADETS (on contract basis)
Qualification	Should have completed Diploma in Nautical Science (DNS) from Institutes approved by D.G. Shipping.
02	TRAINEE MARINE ENGINEER (on contract basis)
Qualification	Should have completed 4 years Degree in Marine Engineering from any IMU affiliated colleges/ Institutes approved by DG Shipping.
03	NCV(Trainees) (GP Rating) (on contract basis)
Qualification	Minimum X Class Pass from recognized Education Board and Pre-Sea G.P. Rating Course and passed the Exit Examination approved by D.G. Shipping with minimum 60% aggregate marks.
Acc	Age should be less than 25 years as on 30 11 2022

For More Details please log on to https://www.dredgeindia.com/careers.html

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Disclaimer: The views and opinions expressed in this article that have been included in this issue are those of the authors and do not necessarily reflect the official policy or position of the Company. The Company assumes no liability or responsibility for the same.

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