



कोशिया डाइजेस्ट

COSHYA

DIGEST

VOL - XVIII

JAN 2020

A PUBLICATION OF COCHIN SHIPYARD LIMITED



QUARTERLY IN-HOUSE MAGAZINE
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FROM THE CMD'S DESK

My dear colleagues,

I wish 'team CSL' and families a very happy, prosperous and fulfilling year ahead.

For CSL, 2019 has been a year marked by consolidation of ongoing projects and activities which we have

I am happy to note that our Townhall sessions are giving excellent opportunities for interaction between various levels of our people as also very important feedback. We need to always focus on our identified competencies viz Teaming, Execution excellence, Constraint breaking and Continuous

learning. We should try and evolve a culture by which we always act according to the conforming behaviours and shun the non-conforming traits against each of these competencies.

On systems, CSL is putting strong emphasis on various processes, certifications and digital systems. SAP- File Life Cycle management (F L M) an electronic file

system has been rolled out and should be fully implemented this year. We will soon roll out 'e-Procurement' and SRM- the supplier relations management tool.

I request all of you to be eternally vigilant on the Safety and Security front. We have faced some challenges on our safety front and I request all of you to be very sensitive in this aspect. The new concept of Field Safety representative (FSR) we have introduced in our Safety management is a very important step and needs support from one and all for it to be successful.

By working with dedication, determination and commitment we can create a great future for our company, our country and ourselves. I request unstinted support from each one of you in taking CSL forward. Once again, wishing you all a happy, peaceful and satisfying 2020.

Jaihind! 🇮🇳



initiated over the past few years. On the IAC, our most important project- we achieved various milestones including starting of all GT's and the Pre-CST drydocking.

Shiprepair achieved the best ever turnover in 2019 and is continuing to do well. Our operations in shiprepair has now extended to Mumbai and Kolkata and shortly we will commence operations in Port Blair.

Our strategic initiative 'CRUISE 2030' engaging globally renowned Boston Consulting Group (BCG) is progressing well and various initiatives are underway. CSL is also moving ahead to obtain the GreenCo certification from the CII which will benchmark our company against various environmentally sensitive parameters. Our HR department is putting in strong emphasis on People capabilities and development. We have initiated a new experience program for our employees and supervisors in Japan and I expect to take this forward.



CSL FOR DEVELOPMENT OF SHIPREPAIR ECOSYSTEM FOR A&N ISLANDS

Cochin Shipyard Ltd (CSL) has entered into an agreement with the Andaman & Nicobar Administration to commence its operations at Marine Dockyard, at Port Blair, a facility that is currently being operated directly by the A&N Administration. Under the

Administration for profit generated by Cochin Shipyard Ltd (CSL) through providing Ship Repair Services at the Marine Dockyard facility. Cochin Shipyard Ltd (CSL) shall assist the Administration in the preparation of DPR for Augmentation and Modernisation of the facility for which the Company would charge 3% of the project cost (as per approved DPR). Cochin Shipyard Ltd has also offered to provide procurement services on a Cost plus Mark-Up basis, in case the Administration so



ambit of this agreement signed on 28 Nov 2019, CSL shall assist the Administration to set up a Ship Repair ecosystem at Andaman & Nicobar islands, shall associate in Augmentation and Modernization of the facility and shall also focus efforts towards Skill Development in the Islands in consultation with the Administration and Technical Institutions located in the Islands.

Cochin Shipyard Ltd (CSL) will be entitled to a management fee of ₹15 crores per annum. A profit share of 7.5% of PAT shall be payable by CSL to the

desires.

The Agreement was signed at Port Blair on 28 Nov 2019 by Shri Sudhir Mahajan IAS, Secretary (Shipping), Andaman & Nicobar Administration and Shri. Madhu S Nair, CMD, Cochin Shipyard Ltd (CSL).

The Agreement is for a period of 30 years, during which Cochin Shipyard Ltd (CSL) is expected to spruce up the operational efficiency of the dockyard as well as improve the overall Ship Repair eco system in the island to ensure faster turnaround and minimise downtime of the vessels, which are the lifeline for the Islands. ►

IRON MAMMOTH “INS VIKRANT” PLANNED TO SET OFF FOR MAIDEN SEA TRIAL BY MID 2020

A deep-rooted urge to 'make an Indigenous Aircraft Carrier has been embedded in the psyche of our country since independence. The seeds for such self-reliance were planted in 2005 when the Indian Navy decided to entrust the building of the IAC to Cochin

completing the detailed design & engineering and construction in a time bound manner has been an extremely challenging task for the yard. The interaction with the owners is not limited to certain individuals but with the various directorates of the Indian Navy, and



Shipyard. The yard, had to gear up in a big way to meet the challenge. Since then, CSL has been continuously striving to make true the Nation's dream of Indigenous Aircraft carrier.

Constructing an aircraft carrier, that too for the first time, has its own share of challenges. The incorporation of numerous high-end technologies, setting up of intricate Aviation Facilities Complex, installation and integration of one of the most powerful propulsion systems onboard any ship, installation and proving of various weapons and sensors and undertaking extensive outfitting works on such a complex ship is no mean task. Being the maiden effort of the yard in warship construction to this scale, adapting and transforming to the concept of telescopic design wherein design and construction are carried out concurrently and then

hence understanding the requirements of the owners during the design and equipment procurement phase



had its share of challenges,

The pinnacle of CSL's admirable endeavour to catapult our nation into the elite club of nations in the world capable of designing and constructing an Air Craft

Carrier, was achieved on 12 Aug 2013 when Cochin shipyard launched IAC from the Building Dock. In spite of various teething problems due to its complexity, the launching of the ship of this size in about 3 years' time from keel laying is considered as a creditable achievement even by International Standards. CSL had to innovate, achieve unparalleled fabrication throughput to

involve overhauling of underwater valves, renewal of bearings of stern tube, "A" & "P" Brackets, removal of port AK 630 platform/Purga platform, erection of main mast, inspection of Rudder seals, renewal of all sacrificial anodes, feathering trials of CPP, fitment of RAN40L 3D Band Radar Antenna, Fitment and alignment of foundation of LUNA, Ladoga, Saturn



achieve this milestone.

Since launching, hull erection and outfitting have been much apace in order to realize the nation's dream of building the Indigenous Aircraft Carrier.

In early November 2019, Cochin shipyard achieved yet another milestone viz, "Starting all the four Gas Turbines on board the Indigenous Aircraft Carrier(IAC)". This is also considered as a significant achievement since CSL's experience with Gas Turbine Propulsion systems hitherto has been very limited. Considerable coordinating efforts were also required from CSL for positioning of various Service Engineers for the starting of the GTs and the trials of all pre-requisite & associated systems.

IAC was docked in Ship Repair Dock on 19th Nov 19 for undertaking extensive Pre-Contractors Sea Trials dry dock work package with stringent timeline of undocking on 19th Dec 19 based on the availability of favourable tidal condition. The major works undertaken

Lights.

INS Vikrant is in an advanced stage of Phase-III Construction which involves predominantly trials & commissioning of various equipment and systems. All the all four Gas Turbines have been started, Power Generation Systems comprising of gigantic 3MW Diesel Alternators and MSBs are ready and trials of ship's major systems and auxiliary equipment are in progress.

Basin Trials for proving of the propulsion systems, is scheduled for Mar 2020. Once the Basin Trials are successfully completed the IAC would be ready to commence the Sea Trials which is targeted for April 2020.

The experience gained by the yard during various stages of construction backed up with the yard's inner thirst/constant strive to transform into a shipyard of global standard producing quality warship in a challenging build period, will certainly realize the nation's dream of Indigenous Aircraft Carrier in Feb 2021. ▶



PHASE – 3 INDIGENOUS AIRCRAFT CARRIER



The Phase III contract for the construction of the Indigenous Aircraft Carrier (P-71) was signed on 31st Oct 2019 at the Ministry of Defence between Mr Suresh Babu N.V., Director (Operations) and Ms Nidhi Chhibber, IAS, Joint Secretary & Acquisition Manager (MS).

The Phase III contract covers the operational trials of various equipment and systems installed onboard and also the Sea Trials of the Carrier. The contract also covers some activities which are to be undertaken post-delivery of the vessel including support during Weapon and Aviation Trials. ►

STEEL CUTTING CEREMONY

FLOATING BORDER OUTPOSTS

The steel cutting ceremony of the Floating Border Outposts being built for the Border Security Force, was held on 07 Nov 2019. Shri Mukesh Tyagi, DIG, Water Wing, Border Security Force did the honours at a function held at the yard. Officials from the Government and the Shipyard participated.

CSL won the contract to build 09 such vessels from the Border Security Force, Ministry of Home Affairs, Government of India. ►



LAUNCHING CEREMONY BY 102/103



Cochin Shipyard Launched Ro PAX vessels No102 & 103 for the Inland Waterways Authority of India. Ms Julie

Jose, wife of Shri V J Jose, Director (Finance) and Ms Binu NS, wife of Shri Bijoy Bhaskar, Director (Tech) did the honours in a function held on 21 Oct 2019.

BY-102

by

Smt. Julie Jose

(W/o Shri. Jose V J, Director Finance, CSO)

In the presence of CMD

BY- 103

by

Smt. Binu N S

(W/o Shri. Bijoy Bhaskar, Director Technical, CSL)

In the presence of CMD

on 21 Oct 2019 (Monday)



CSL secured the order for construction of 10 No. RoRo / Ro PAX vessels from Inland Waterways Authority of India. These vessels will be operated in strategic locations in National Waterways 1 and 2. These vessels can accommodate around 200 passengers and will have 8 crews and can carry 2 trucks and 4 cars. These are equipped with all the life saving equipments and are built as per the IRS standards. ▶

BLOCK ERECTION BY 104/105



The block erection of the vessels built for the Inland Waterways Authority of India BY 104 and BY 105 were held on 28 Oct 2019 at CSL.

Shri Suresh Babu N V, Director (Ops) and Shri Mathew George, Director IWAI, Kochi did the honours for BY 104 and BY 105 respectively. ▶



LAUNCHING CEREMONY TUNA

FV – FV 12

Shipyard launched the 12th vessel of the series of Tuna Long Liner Cum Gilnetter being built for the fishermen beneficiaries at Tamil Nadu.

Smt Radhamoni G, Leading Service Assistant (HK) did the honours in a ceremony held on 07 Nov 2019 at Cochin Shipyard where the C&MD, Directors, officials of CSL and Tamil Nadu Fisheries participated along with the beneficiaries.



FV 05

The company launched the 5th vessel of the series of Tuna Long Liner Cum Gilnetter being built for the fishermen beneficiaries at Tamil Nadu.

Smt Omana E S, Senior Assistant (Finance) did the honours in a ceremony held on 21 Nov 2019 at Cochin Shipyard where the C&MD, Directors, officials of CSL and Tamil Nadu Fisheries participated along with the beneficiaries.



A LONG LINER CUM GILNETTER

FV 11

The company launched the 11th vessel of the series of Tuna Long Liner Cum Gilnetter being built for the fishermen beneficiaries at Tamil Nadu.

Smt P D Lisamma, Leading Service Assistant (HK) did the honours in a ceremony held on 19 Dec 2019 at Cochin Shipyard where the C&MD, Directors, officials of CSL and Tamil Nadu Fisheries participated along with the beneficiaries. ➤





HOOGHLY COCHIN SHIPYARD LIMITED KOLKATA (HCSL)

Hooghly Cochin Shiyard Limited, Kolkata was initially formed as a JV between CSL and HDPEL with a shareholding pattern of 76 and 24 percent respectively for a lease period of 60 years and is now a 100% subsidiary of CSL

HCSL is being managed as a separate subsidiary company of CSL through separate recruitment and by officers of CSL on secondment to HCSL. Although the scheduled completion date of the project as per Concession Agreement is June 2021, all efforts are being taken to try for commencement of operations by the last quarter of 2020.

The project facility and infrastructure developments is in progress at HCSL and were reviewed by CMD and Directors on 11 October 2019 and saplings were planted by them. ➤



The substation work in progress



End Launching Slipway work in progress



The works are going on as per schedule & project is expected to be completed well within target dates.



The outfitting jetty construction works was completed on 31st December, 2019 as against MOU target of 15th Feb 2020 for Excellent rating

SHIPREPAIR

CSL has successfully completed repairs of sixteen vessels during the period from October to December 2019. Out of sixteen, repairs of five vessels were carried

support IR class vessel built by M/s Ateliers & Chantiers LA Rochelle Pallice, France, owned by M/s ONGC and operated by M/s Shipping Corporation of India.



CSL bagged the refit of the aforesaid vessel on a global tender basis after competing with other reputed yards. The refit jobs commenced on 10th August 2019 and was successfully completed on 12th November 2019. We could complete the refit on time and in an utmost professional and economic manner. The major job scope comprised of the repairs of the geotechnical systems and the bow thruster overhauling jobs. Other jobs include engine major routines, dynamic positioning system jobs, governor system up gradation jobs, diving bell removal and endorsement jobs, accommodation jobs, overhauling of alternator,

out at CMSRU and three vessels at ISRF apart from repairs of eight vessels at CSL Main facility.

CSL Main facility

GTV Samudra Sarveksak of Oil and Natural Gas Corporation Limited (ONGC), INS Jamuna & Tug Sarthi of Indian Navy, MV Amindivi, MV Minicoy, HSC Bangaram, HSC Viringili, & MV Corals of Lakshadweep Development Corporation Limited (LDCL), were successfully repaired/refitted at main facility.

The vessels currently under repairs at Main facility are MV Kalighat, and MV Sentinel of M/s Andaman & Nicobar Administration, MV Arabian Sea and MV Laccadives of LDCL, INS Sharda & INS Sagardwani of Indian Navy and Shanti Sagar 17 of M/s Adani Ports Pvt Ltd.

GTV Samudra Sarvekshak

GTV Samudra Sarvekshak is an offshore Geotechnical

overhauling of 83 numbers of electric motors, painting jobs and steel renewals on both hull and internal compartments.

Pre-planning and impeccable job execution were the key elements towards the success of the project. Also



the excellent support provided M/s ONGC and M/s SCI in completing the project in time is highly appreciable.

INS Jamuna

INS Jamuna, a survey vessel of Indian Navy under Southern Naval Command, successfully completed her short refit on 04 November 2019. The refit was commenced on 10 August 2019 and completed all offloaded jobs well within scheduled time frame



including 40 days of dry dock repairs. Major scope of work comprises shaft survey, repairs on rudder stock, Routines on Main Engines & Diesel Generators, Blasting & Painting including Steel Renewal jobs etc. 9000 hourly routines on AC plant, . installation of SMB davits(4 nos.)Overhauling of STP, Pumps, Compressors, Alternators and Motors and other miscellaneous jobs apart from routines on navigational and communication systems as per Navy's policy were carried out during the refit.

BPT Sarthi

Bollard Pull Tug Sarthi, owned by Indian Navy operating under Southern Naval Command, successfully completed her short refit on 23 December 2019. The refit was commenced on 11 Aug 2019 and completed well within scheduled time frame including 72 days of dry dock repairs. Major scope of work comprises complete overhauling of Voith Propellers, Routines on Main Engines & Diesel Generators, Blasting & Painting including Steel Renewal etc. Overhauling of Pumps, Compressors, Alternators and Motors apart from renewal of pipes and other miscellaneous jobs were carried out during the refit.

INS Sharda

Indian Navy owned Petrol Vessel, INS Sharda, being operated by Southern Naval Command, has been undergoing her normal refit at CSL since 15 Jul 2019. The refit is scheduled for 181 days including dry dock and afloat repairs. In spite of interruption of work on many days due to inclement weather conditions and emergence of substantial additional works scope, the refit is still progressing as per schedule. The refit enters into final phase of trials of various machineries & systems as per Navy's policy following Basin Trials and Sea Trials immediately afterwards. Overhauling of CPPs, shaft survey including renewal of seals, overhauling of steering gear system and repairs on rudder stock have been undertaken through in-house facility. 12K hourly routines on Main Engines and Diesel Generators were carried out and trials are undergoing. Upgradation of entire habitability area of the vessel is progressing and extensive steel renewal jobs on hull exterior & internal compartments were completed. Major jobs viz. overhauling of turbo chargers,

capacity upgradation of RO plants, overhauling of STP & EVAC systems, major routines on A/C & Refrigeration plants, Alternators, substantial renewal of all system pipe lines, routines on various navigational & communication equipment etc have been carried out. Replacement of air compressors, incinerator, numerous motors, Radars, GPS, CCTV, Telephone Exchange, Intercom system, EM Log, AIS, MB SRE system, GPI, AIS, digitization of fins stabilizers etc including



commissioning activities were completed. Blasting & painting of entire hull exterior, superstructure, machinery spaces, and tanks have been completed as per Navy's policy. ▶

ISRF

During the period October 2019 to Dec 2019, CSL-ISRF has successfully completed the repairs of three ships of LDCL namely HSC Black Marlin and HSC Skip Jack and MV Elikalpeni.

Repairs of one Naval Waterjet Fast Attack Craft - INS Kalpeni and A&N Administration's Cargo Ship - MV Chuglam are progressing.

An Innovative method of using two external pulleys to alter the direction of Dock gate closing ropes facilitated the simultaneous docking of HSC Black Marlin and HSC Skip Jack. This enabled ISRF to complete the monsoon repairs in time and the ships sailed off on 03 October 2019.

M V Skipper II of CIFNET underwent guarantee repairs for its aft seal leak from 01 October 2019 to 15 October 2019.

M.V. Elikalpeni of LDCL had undergone emergency dry-docking repairs from 18 October 2019 to 06 November 2019 and vessel sailed off on 09 November 2019.



M.V. Chuglam of A&N Administration reached ISRF on 22 October 2019 for intermediate survey drydocking repairs. Vessel was docked on 09 November 2019 and undocked on 13 December 2019. Tail shaft survey, steel renewals and machinery works were completed.

INS Kalpeni of Indian Navy was dry - docked on 18 December 2019 for 15 days emergency repairs for its centerwaterjet seal renewal. ▶



Inauguration of the office space allotted to CSL for CKSRU operations at Marine Dockyard, Port Blair was done by Shri. Madhu S Nair, CMD, Cochin Shipyard Ltd (CSL) on 29th November 2019 in presence of official from CSL, DSS and Marine Dockyard.

CSL- MUMBAI SHIP REPAIR UNIT (CMSRU)

During the period of October – December 2019, five vessels have successfully completed repairs and sailed off from CMSRU. These vessels include WSV SamudraNidhi of Shipping Corporation of India, TSHD Shanti Sagar 4 of Adani Ports & SEZ Limited, Support Station 3 of Bayu Maritime, Crane Barge Mallinath of Link Shipping and OSV Hal Supporter of Hal offshore.

The vessels under repairs include AHTS Priya 23 of Priya Blue Shipping- undergoing installation of entirely new helideck, Short refit of ICGS Agrim of Indian Coast Guard, Cutter Suction Dredger Aquarius of DCI and Passenger Vessel Bharat Seema of A&N Administration.



Major works undertaken

WSV Samudhra Nidhi- Vessel arrived for lay up repairs on 23 August 2019 and sailed off after completion of repairs on 11 November 2019. Major works undertaken on the vessel are acid blender tank renewal and stimulation system thruster upgradation. ShanthiSagar IV, dredger of M/s Adani Ports arrived for repairs on 09 August 2019. After successful completion of repairs the vessel sailed off on 16 November 2019. Major works carried out on the vessel are dredge pipe renewal and overhauling of Gantry. Repairs of Support station 3 were undertaken between 27 September 2019 and 27 November 2019. Vessel was docked for attending steel renewal of forward dented area. MV Mallinath was docked for attending routine dry dock work during the period 19 October 2019 and 26 November 2019. Repairs of Hal supporter was carried out between 02 August 2019 and 10 October 2019. 20 Tonnes of Steel renewal has been undertaken as part of drydock repairs of the vessel. ►



CSL-KOLKATA SHIP REPAIR UNIT (CKSRU)

Further to signing the Memorandum of Understanding signed on 17th March 2018, Concession Agreement to upgrade, operate and manage ship repair facility at the two dry docks and Berth No.6 at Netaji Subhas Dock (NSD) in Kolkata Port Trust premises for a period of 30 years, was executed on 28 March 2019 between CSL

India (IWAI) headed by Shri. Prabir Pandey, Vice Chairman, IWAI.

The First commercial repair vessel, Greatship Vidya, an Anchor Handling Offshore Support Vessel was docked at CKSRU for a repair period of 25 days on 5th January

2020. Major works undertaken onboard Greatship Vidya include overhaul of bow and stern thrusters, main engine and auxiliary engine overhaul, overhaul of valves, pipe renewal inside FO tanks, blasting & painting, fender renewals, DG paralleling, ACB calibration etc.

CKSRU bagged the award for the Best Unit/Department in implementation of the Official Language (Hindi) in CSL for the year 2019. AGM (NP), currently in charge of CKSRU, received the award from CMD, CSL during the Official Language Month

Celebrations held at CSL on 2nd November 2019. 🎉

and KoPT. The new venture is being managed by separate unit of CSL known as "CSL-Kolkata Ship Repair Unit (CKSRU).

Ship Repair Operations at CKSRU commenced on 10th October 2019 with docking of GRSE Yard 3020 (INS Kavaratti) for a period of 21 days.

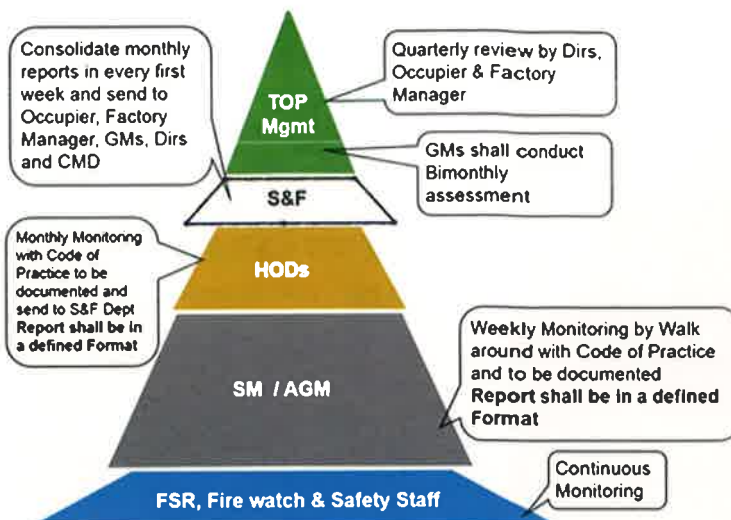
The project facility and infrastructure developments in progress at CKSRU were reviewed by CMD and Directors on 11th October 2019.

Project site was visited by independent Directors of CSL Board of Directors, Shri. Pradipta Banerjee and Shri. Radhakrishna Menon. CKSRU project facility was also inspected by the delegation of Inland Waterways Authority of



HSE GOVERNANCE SYSTEM

CSL is in the process of upgrading the Occupational Health and Safety Standards from OHSAS 18001 to ISO 45001:2018. It is prudent to use this opportunity to strengthen our safety culture. The new standard envisages more thrust on consultative & participative process and control on contractors who are working outside the campus supporting Ship building and Ship repair process. In order to achieve that, Shri. Bejoy Bhasker, Director(Technical) officially kicked off the new HSE Governance System in CSL on 05 Oct 2019. The structure of HSE Governance System is given shown below.



For smooth implementation of the system, Around 90 Field Safety Representatives and 16 HSE Coordinators have been nominated across CSL from different Departments. Above that, section heads and top management are playing a key role to showcase the felt leadership in Safety.

One day awareness session has been conducted at National Safety Council Kakkanad to all FSR and HSE coordinators.



One day workshop was conducted on 16th December 2019 for HSE Coordinators to streamline the system implementation by taking the feedback.



Damage Control Training

An extensive practical training on damage control on board vessel has been conducted at AVINASH (A ship structure which simulate various types of leaks, High pressure pipe bursts and power failures), Sothorn Naval Command. It was a 2 day program covering 60 nos of CSL staff comprising officers, supervisors and employees.

LFI (Learning From Incidents)

Learning from Incidents is a new initiative by S&F Services Department to spread the incident details with root cause, learning and corrective actions to a mass

audience through SMS, Intranet etc. This can be used for future reference while carrying out the same kind of jobs and training purposes. Till date 27 LFIs published in intranet HSE link.

Gas Management systems

U&M Dept fitted flashback with quick couplings on the gas manifolds onboard Ships and Dock sides to avoid the flashback to system lines. This is the engineering control adopted by CSL after the Sagar Bhushan incident happened on 13 Feb 2018. Two flash back arrestors are fitted on each acetylene and Oxygen lines at manifold and cutting torch ends. ▶

FLOW PROCESS LAB AT TRAINING INSTITUTE WORKSHOP

CSL's Ship Repair Instrumentation Team has installed a Flow Process Lab at Training Institute Workshop to enable the METI GME students, Apprentice ship trainees and Internship Students at CSL for better

pneumatically operated and consist of positioners. Normally 4 bar pressure is required for activation of control valves and the same is ensured through interlocks. Generally, these type of valves are mainly used in tanker vessels and process lines. For emergency stopping of filling the tanks, emergency On /Off (solenoid) valve is used.

The flow rate in Flow Process Lab is calculated using the flow sensor and reading will be displayed in the meter located at the control panel. Further, the operational checking of external flow meters is possible in Flow Process Lab by removing the dummy pipe line and by fitting flow meter in line with suitable extension pieces. More accurate checking of the same is feasible, by adding standard master flow meter in series with testing flow meter.

Flow Process Lab is fully automated. All operations can be executed and monitored from the control panel. i.e. pump on /off, control valve percentage opening/closings, emergency cut of valve closing and opening, receiving tank drain valve opening/closing,

checking pneumatic pressure sufficiency, monitoring temperature in process line and level in the storage tanks.

The following personnel from Instrumentation Team designed and installed the Lab at Training Institute Workshop.

understanding of the fluid flow and dynamics.

Flow Process Lab is designed for practical knowledge on a flow system and familiarisation of various components, controls and parameters monitoring in the system. Any non-compressible fluid can be used in the Flow Process Lab i.e. water, diesel, Lub oil etc. Fluid will be stored in two storage tanks which are interconnected and located at the bottom side of Flow Process Lab. The fluid stored in the two storage tanks are transferred to the receiving (calibration) tank located at the upper side by the centrifugal pump and returned to storage tanks via a Drain valve located at the bottom of Receiving tank. The drain valve is solenoid operated valve. The fluid level in the tanks can be monitored through sight glass (local) and level transmitters (remote) and volume of transferred fluid can be calculated.

The flow rate in the Flow Process Lab can be varied by two control valves. For controlling the flow rate, control valve in the main line is operated. For further decreasing the flow rate, control valve in the bypass line is operated. These control valves which are



Sri. NIJU VADASSERY (Manager-SRO) (Code no: 3660)

Sri. RAVIKUMAR P M (AE-SG (IM))(Code no: 3095)

Sri. JIJIDAS (SIM) (Code no: 3565)

Sri. BINU V S (WLF-6) (Code no: 4551)

PASSING OUT PARADE OF MARINE ENGINEERS



The passing out ceremony of the 42nd Batch (37 GMEs) of the Marine Engineering Training Institute of Cochin Shipyard Ltd. was held on Thu, 05 Dec 2019 at the Western Quadrangle of the Main Office.

Shri. S Suhas, IAS, District Collector of Ernakulam was the Chief Guest of this Ceremony. The Passing Out Parade was inspected by the Chief Guest and he gave away awards to the Outstanding Cadets in the fields such as Best Cadet (Kevin Mathew - Slot.No.2711), Best Trainee Academic (Basil P Mathew - Slot.No.2733), Best Athlete (Rohith Tony-Slot.No.2714) & Best Swimmer(Nizam K K-Slot.No.2733).



The event of the day started with acceptance of General Salute by Shri. Madhu S Nair, C&MD and presentation of report by Shri. P Kolandaivelu, Asst. General Manager (Trg) and Vote of Thanks by HOD METI. Invitees included Directors and Senior Officers of CSL, Parents and Family Members of the Cadets, Officials and Office Bearers of Associations / Trade Unions. ▶



IMMERSION PROGRAMME FOR WORKMEN



An immersion programme aimed at all round development of employees to meet future challenges at work in CSL was conceived during Dec 2019. Under this programme, a twenty member team was deputed to Japan, to gain exposure to their culture both at work and social settings.

The training module consisted 15 days with a curriculum mix of technology, soft skills, experience Japan by travelling and visiting Shipyards and other factory units. The training programme contained a combination of class room coaching and factory visits including Shipyards in Japan.

The employees gained immensely by understanding the Japanese work culture, work place management, social behavior and culture displayed by Japanese in public places, and got a feeling of latest technology in use, safety management practices, robotics technology in action, productivity improvement practices through 5S and Kaizen. ▶



NATIONAL UNITY DAY



The National Unity Day was observed at Cochin Shipyard on 31st Oct 2019.

We celebrate this day to pay tribute to Sardar Vallabh Bhai Patel, Iron Man of India, as he played an important role in uniting the country.

This day is also observed as Satarkata Day (Vigilance Day). Shri Madhu S Nair, C&MD and Shri Bejoy Bhasker, Director (Tech) lead the pledge taking in Hindi and English. ▶



CALENDAR 2020



Cochin Shipyard launched the calendar for the year 2020. The calendar depicted the theme of Cultural Competency of the Company – viz teaming, execution excellence, constraint breaking and continuous learning.

Chairman & Managing Director, Shri Madhu S Nair released the new Calendar at a brief function where the trade union associations of officers and supervisors leaders were present. ▶



NATIONAL STUDENTS SEMINAR PRAYAAG – 2019

A one day National Seminar was conducted by Marine Engineering Training Institute, CSL on the topic of "Ongoing Developments in the Shipping Industry in the area of Propulsion, Pollution and Design" at METI Assembly Hall on Fri, 08 Nov 2019. Shri. P. Kolandaivelu presented the Welcome address. Shri. Madhu S Nair, Chairman and Managing Director inaugurated the Seminar by lighting the traditional lamp. Shri. Sajan P T (Elegant Marine Services Pvt. Ltd), Shri. Jose V J (Ex. C.M.E Cochin Port Trust) and Shri. Suresh P Kurup (Synergy Oceanic Services India Pvt. Ltd.) was the judges for the function.

Teams representing seven colleges namely (1) Andhra University College of Engineering, Vishakapatnam, (2) Coimbatore Marine College, Coimbatore, (3) Eurotech Marine Academy, Kochi, (4) Kunjali Marakkar School of Marine Engineering, CUSAT, Kochi, (5) Mangalore Marine College, Mangalore, (6) Marine Engineering Training Institute, Cochin Shipyard Ltd., Kochi and (7) Sree Venkateshwara College of Engineering, Madras, participated and each team consist of 2 members each team performed skillfully in the seminar.

As same as in the last year, Marine Engineering Training Institute, CSL has won the first prize. Second place was filled by Kunjali Marakkar School of Marine Engineering, CUSAT, Kochi and third prize went to Eurotech Marine Academy, Kochi. Shri. Bejoy Bhaskar, Director (T) distributed the prize for the winning teams and vote of thanks was delivered by HOD METI. ➤





LATEST DEVELOPMENTS IN STERN TUBE SYSTEM

Debajit Datta & Chriswin D Silva
GME Cadets, METI



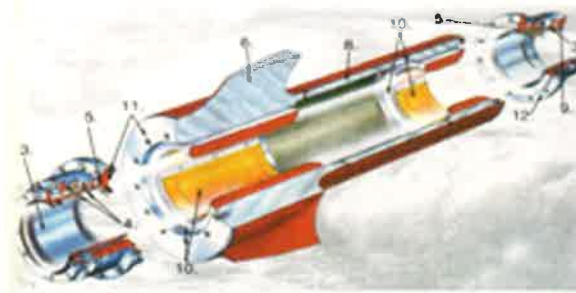
The objective of technological advancement is to improve the quality of human life in all sectors, be it transportation, energy, communication, health care, agriculture etc. Technological advancement in the marine sector has been giving special attention towards the environment so as to curb the adverse effects of marine pollution. Operational discharges, leakages, spills and various innumerable human errors and carelessness have led to the pollution of our own ocean waters. Due to all of these lacunae, all systems on board a ship are being improved to eliminate the chances of pollution.

One such development is in the design of Stern Tube Bearing system.

The initial design of a Stern tube bearing system was sea water lubricated and consisted of a number of Lignum vitae staves.

Next design was Oil lubricated stern tube system with simplex seal. But we had to move further ahead on due to various disadvantages of the system.

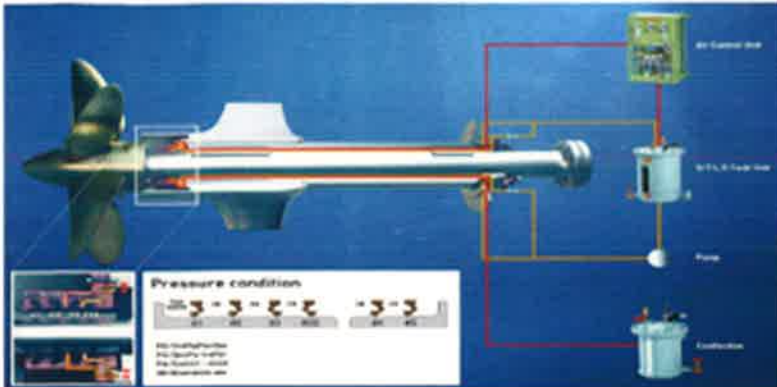
OIL LUBRICATED SIMPLEX TYPE STERN TUBE BEARING



Then came Oil Lubricated Air sealed Stern tube system. Now the main advantage of this system over the previous one is there is no longer any lignum vitae stave, instead there is compressed air, lube oil and lip seals in the system. The entire stern tube system consists of an air control unit, a lube oil tank unit and a drain collection unit. Inside the stern tube there are sealing arrangements consisting of a number of lip seals placed as shown in the diagram.

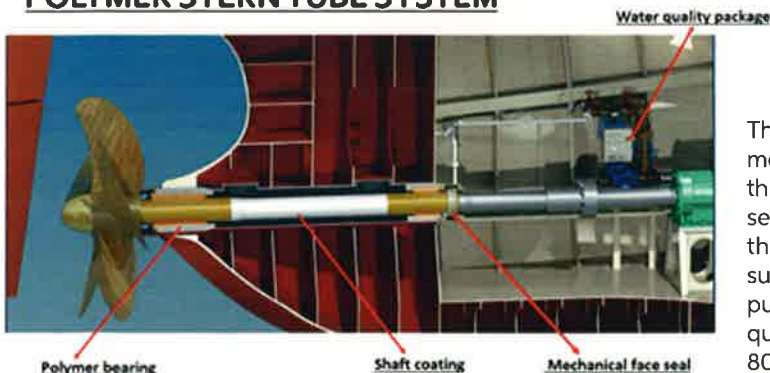


OIL LUBRICATED AIR SEALED STERN TUBE SYSTEM



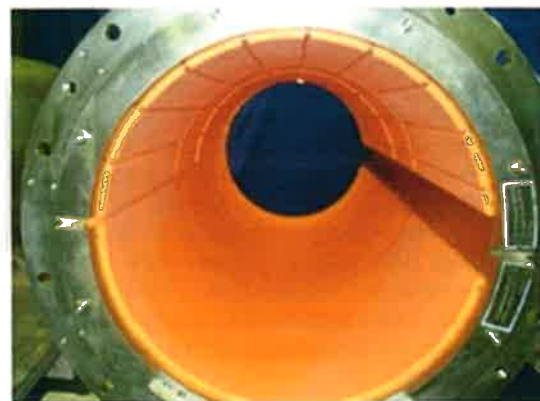
Sea water lubricated Elastomeric polymer stern tube system is the latest development. The main advantage of the system from the initial one is that there is no lignum vitae stave, no white metal cast iron bush, any complex air sealing arrangement or even any oil. Instead there is sea water as the lubricant and a homogenous elastomeric polymer material as the bearing. Sea water is pumped using the water quality package at a higher pressure than the surrounding sea water pressure through the stern tube. This helps in cooling and lubrication of the bearing material. An elastomeric polymer bearing is used to provide support to the propeller shaft and a mechanical face seal is used in the forward side of the stern tube to prevent any leakage of sea water into the Engine Room side. A modified epoxy coating is provided on the shaft which is sea water lubricated, in order to prevent corrosion and protect from any abrasive particles.

SEA WATER LUBRICATED ELASTOMERIC POLYMER STERN TUBE SYSTEM



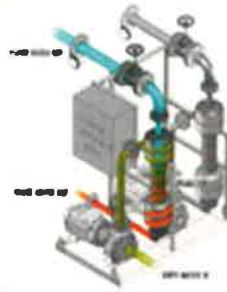
The bearing used here is made of a homogeneous elastomeric polymer material. This material has reduced coefficient of friction due to which it has better power transmission capacity, increased service life and lesser wear rate. The bearing can be split into 2 parts, the upper and the lower part, the entire bearing is shrunk fit into the stern tube using liquid nitrogen in order to prevent the rotation of the bearing along with the propeller shaft. There is a tapered key which acts as an insurance against any rotation of the bearing inside the stern tube. The lower part of the bearing is made smooth in order to promote an early formation of hydrodynamic film of water between the bearing and propeller shaft. There are grooves provided in the upper half for easy passage of sea water and acts both as a lubricant and a coolant. These grooves also help to trap any suspended particles in the water and thus preventing any scoring of the shaft. One of the advantages of this bearing is that it has a Length/Diameter ratio of 2:1 which can even be 1:1 depending on the operational load, rpm etc. Thus the overall size of the bearing can be decreased.

ELASTOMERIC POLYMER STERN TUBE BEARINGS



The water quality package consists of a pump, a flow meter and a cyclonic separator. The main function of this is to supply clean sea water into the stern tube. Dirty sea water is taken into the system using a pump and then with the help of cyclonic separator all the suspended particles are removed and clean sea water is pumped into the stern tube system. This type of water quality package can remove suspended particles of size 80 microns & above.

WATER QUALITY PACKAGE



Using sea water as the lubricant, it can cause corrosion of shaft. In order to prevent it, a modified epoxy coating is provided over the shaft which is corrosion resistant, crack resistant and has enhanced flexibility. So it usually has a high serviceable life.

SHAFT COATING



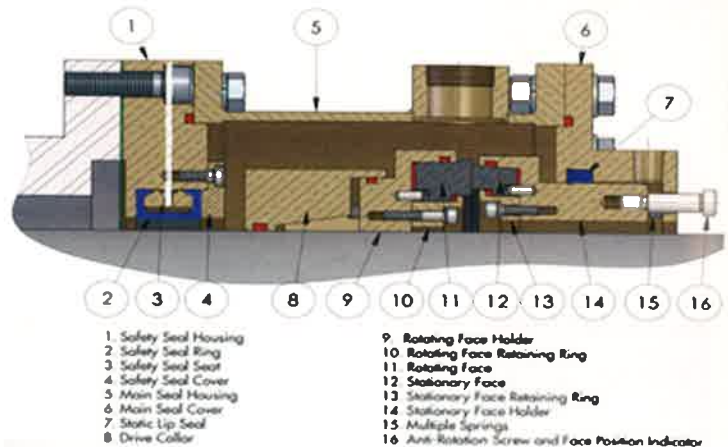
It is applied to the exposed steel areas of the shaft between the liners to protect against corrosion.

Shaft coat is a modified toughened epoxy coating resistant to corrosion, crack resistant and has enhanced flexibility.

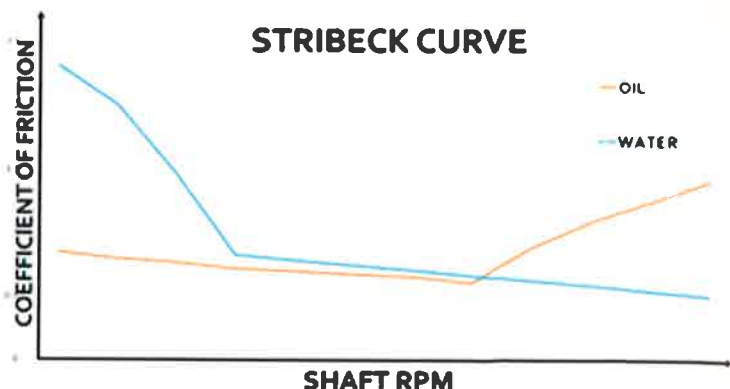


Mechanical face seal ensures zero leakage of sea water into the Engine Room side. The seal here has two parts – the stationary part and the rotating part. Water from the water quality package acts as a lubricant here and is then passed to the stern tube. Sealing is maintained by a number of rubber rings shown in red colour and by the mirror finished rotating and stationary faces keeping contact. The rotating face is held in place with the rotating face holder by the means of a locating screw. The rotating face retaining ring and the rotating face holder is tightened together as one assembly by means of a screw. The drive collar is tightened with the rotating face holder with a screw. On tightening this screw, the drive collar rides up on the cone section and gets tightened and thus the whole unit rotates along with the shaft.

A similar arrangement is used on the stationary part where the locating screw keeps the stationary face in place with the stationary face holder and the retaining ring is screwed with the face holder to tighten these parts as one assembly. Continuous contact between the rotating face and the stationary face is maintained with the help of multiple springs pushing the stationary face holder towards the rotating face holder. In case of failure of sealing, a safety sealing arrangement is also provided in this system. When failure occurs, operator shuts off the supply from the water quality package and air is passed to the safety seal arrangement. This air pushes down the safety seal ring, which then grips onto the shaft and this sealing will not allow sea water through the stern tube to enter into the Engine Room side.



Another advantage of using water as the lubricant can be described through the STRIBECK CURVE. This curve describes the lubrication characteristics of oil and water. Here it can be seen, during low rpm oil shows better lubrication characteristics whereas when rpm of the shaft shoots up towards optimum, water shows better lubrication characteristics.





From all of these it can be concluded that there are many advantages of this type of stern tube system over the former systems.

There is zero discharge of any oil or oily mixture into the sea as no oil is used in the system. Instead only sea water is used as lubricant.

The main advantage being no loss of oil or no marine pollution through stern tube. As the shaft has a modified epoxy coating and a bearing material having low coefficient of friction inside stern tube the lifetime is longer usually 15 to 20 years. Less operational and

maintenance cost sums up to the benefit of the ship owners.

This sea water lubricated stern tube system is a significant development in minimizing chances of pollution through the stern tube. Better technologies are the way forward to reach the goal of zero pollution and in the future there is hope that these innovative methods will be developed, accepted and put into action on board all the marine vessels and pollution of our own marine waters and environment can be eradicated from the marine industry as a whole. ►



**WE ARE LATE BUT NEVER
TOO LATE.....**

Abstract of the First prize winning paper at the National Level Seminar on “Ongoing developments in shipping industry in the area of Propulsion, Pollution and Design” held at METI - CSL.

Guide – George Abraham, B. Tech
Marine Chief Engineer



ENERGY CONSERVATION DAY



The National Energy conservation day is observed in India on 14th December. The world is on the threshold of a serious energy shortfall. Energy saved is energy produced is the first tenet of energy conservation. Bringing in renewable and sustainable sources of energy and adapting them in our daily life is the necessary for ensuring security in energy.

CSL organized an awareness programme on 16th December 2019 at METI assembly Hall. The awareness programme was handled by Dr. R. Harikumar, Joint Director of Energy Management Centre, Kerala, the State Designated Agency for Energy Conservation Act.

He talked about the importance of energy conservation in our day to day life and scope of renewable energy implementation in industry/domestic area. He explained the different ways of harnessing solar energy and adaptation of Biogas plants in our houses. He also gave enlightenment about self-sustainability of our houses through renewable energy. He clearly conveyed the message to conserve energy for a brighter future. He also answered the queries of the participants. Prizes for the winners of the various competitions held in connection with the "Energy Conservation Day celebration" were also distributed by Chief Guest Dr. R. Harikumar, Shri. Murugaiah M (CGM-Tech), Shri. R. Subramaniya Pillai (GM-U&M) during this occasion. ➤





PRAJYOTI - LEADERSHIP TALK SERIES

Session 10 of the Prajyoti Leadership Talk series was held on 21 Dec 2019 at METI assembly hall.

The session was handled by Vice Admiral S K K Krishnan, (Rtd) an independent consultant and mentor. Formerly, he was Chairman & Managing Director of Mazagon Docks Limited (now known as Mazagon Docks Shipbuilders Limited)

A Mechanical Engineering graduate from NIT, Trichy, Vice Krishnan is an alumnus of the Jamnalal Bajaj Institute of Management and a postgraduate in warship propulsion system design from the Naval Academy in St Petersburg, Russia. Prior to joining MDL he has served the Indian Navy for 36 years at various capacities. He was awarded the prestigious Visisht Seva Medal (VSM) and Ati Visisht Seva Medal (AVSM) during his Navy career.

He has also served as an independent Director of Cochin Shipyard Limited.

Shri Madhu S Nair introduced the guest to the officers. Adm Krishnan interacted well with the crowd and put forth his thoughts on leadership and management. Followed by a question answer session. ▶



OBSERVANCE OF VIGILANCE AWARENESS WEEK 2019

The Vigilance Awareness Week 2019 was observed from 28th October 2019 to 02nd November 2019 and the theme of this year's celebration was "Integrity A Way of Life". On 28th October 2019 all the employees took the pledge administered by the Head of Departments. C&MD administered the pledge to Officers in the Main Office Block at the designated time. The commission direction to take -Pledge for citizens was communicated to the gathering. A street play was arranged on "Corruption in our Society" was arranged at Employees Canteen Premises by Cochin Shipyard Recreation Club Team.

Debate Competition was conducted at Govt. Law College, Ernakulam for college students and in Kendriya Vidyalaya, Ernakulam for High School students. On 01st November 2019 a workshop was arranged on Transparency in Public Procurement for CSL senior officers in which Shri V Ramachandran, former CTE made a presentation and addressed the participants. The valedictory function in CSL was held on 01st Nov 2019. C&MD, CSL presided over the function. Shri V Ramachandran, former CTE was the Chief Guest delivered the key note address on the subject "Integrity the way of life".

The Vigilance Awareness Week 2019 was conducted in Cochin Shipyard meaningfully and purposefully. ➤





Traversing across the length and breadth of the country, Indian railways is an institution in itself. Air travel was unheard of except for the privileged few, road journeys were considered dangerous, and this left us with no option but good old Indian railways.

An average journey lasted about 36 to 48 hours and with no bedding and pantry service available, packing for the journey was a Herculean, albeit enjoyable task. Suitcases that had seen years of travel but stubbornly refused to be damaged were removed from lofts and dusted thoroughly. Stuffing clothes and other necessities into it was a load tester's delight, the ultimate test being that the strongest passenger would haul himself on top of the suitcase so that it would compress further making way for more things to be stuffed. All suitcases had a tailor made cloth cover which generously left space between itself and the suitcase, leaving additional space for last minute additions.

Bedding things were a luggage by themselves and so was the ubiquitous water jug. Bed sheets, blankets and small 'railway special' pillows constituted the former. I

supplied to upper berthers like me who would cuddle with a book, left undisturbed. Tea and coffee would be available at the stations, albeit in mud cups. You had to finish the beverage before the train left and return the cup. The vendor running alongside the moving train on the platform to reclaim his cup was a common sight.

For the duration of the journey our rail companions became our soul mates. In the confines of the compartment, without any outside influences, we shared confidences with complete strangers. Yet on arrival at our destination, we parted ways never to meet.

Such is the mystique of train journeys that even today if someone gives me a choice between air and train travel, my answer undoubtedly would be 'Trains, anywhere, anytime.' ▶

RAIL JOURNEYS OF YORE

Sharada Sivaram

remember my mother stitching pillows at home with rag cloth to cater to our sleeping comfort on the train. And before Bisleri became a household name, a giant size water jug with a tap attached to it was every traveller's constant companion.

And of course the amount of food we packed would put any foodie of today to shame. There were items like masala chappati and methi thepla which lent themselves amenable to long travel by virtue of their long shelf life. Potato was a very adjustable vegetable which when dolloped with generous helpings of sesame oil would remain unspoilt. And since no South Indian's meal was complete without the all encompassing curd rice, it would be packed in three different consistencies. The first meal of the journey would have rice with only curd, the second meal on the next day afternoon would have equal helpings of milk and curd and the third helping would have only milk with a touch of curd. And then there were snacks to be eaten between meals which would constantly be



The author is wife of Mr. Sivaram N, DGM (Marketing), CSL

कोचीन शिपयार्ड में राजभाषा कार्यान्वयन

भारत सरकार की राजभाषा नीति के सफल कार्यान्वयन के लिए तथा अधिकारियों एवं कर्मचारियों के बीच राजभाषा हिन्दी के प्रचार-प्रसार बढ़ाने के उद्देश्य में हिन्दी कक्ष भरसक प्रयत्न कर रहा है। तिमाही के दौरान राजभाषा कार्यान्वयन के क्षेत्र में की गई गतिविधियों का ब्योरा नीचे दिया जाता है :

राजभाषा माह समारोह

सरकारी कामकाज में राजभाषा हिन्दी के प्रति जागरूकता तथा उसके

सभा भवन में आयोजित किया गया। समारोह के मुख्य अतिथि हमारे अध्यक्ष व प्रबंध निदेशक श्री मधु एस नायर महोदय और उनके साथ श्री सुरेश बाबु एन वी, निदेशक (प्रचालन) और श्री जोस वी जे, निदेशक (वित्त) भी उपस्थित थे। समारोह का शुभारंभ श्रीमती समी एस और कुमारी अफनान नौषाद के ईश्वर वंदना के साथ शुरू हुआ जो श्री संपत्त कुमार पी एन के स्वागत भाषण के साथ जारी रहा। कार्यक्रम के दौरान माननीय गृह मंत्री जी का संदेश श्री नागेश कृष्णमूर्ति, सहायक महाप्रबंधक (आईक्यूसी) द्वारा पढ़ा गया। इसके बाद हमारे अध्यक्ष व प्रबंध निदेशक श्री मधु एस नायर ने अपने अध्यक्षीय भाषण में हिन्दी के बढ़ते आयामों का जिक्र करते हुए राजभाषा कीर्ति पुरस्कार प्राप्त करने के लिए राजभाषा अनुभाग को तहे दिल से बधाई दी। अपने बातों को व्यक्त करते हुए बताया कि हिन्दी एक ऐसी भाषा है जिसकी गति बहुत तेजी से बढ़ रही है। इसके पश्चात कार्यक्रम को एक छोटा सा विराम देते हुए कुमारी रेश्मा आर, परियोजना अधिकारी (सिविल) ने अपने मधुर संगीत से वहाँ उपस्थित लोगों का मन बहलाया।

कार्यक्रम को जारी रखते हुए कंपनी की गृह पत्रिका "सागर रत्न" का प्रकाशन श्री मधु एस नायर द्वारा श्री सुरेश बाबु एन वी, निदेशक (प्रचालन) को सौंपते हुए किया गया। अगला कर्मचारियों के लिए कार्यालयीन कार्यों में सहायता प्रदान करने हेतु राजभाषा अनुभाग द्वारा एक डेस्कटॉप कलेंडर को रूपांकित किया गया जिसका प्रकाशन श्री मधु एस नायर द्वारा श्री जोस वी जे, निदेशक (वित्त) को सौंपते हुए किया गया।

उत्तरोत्तर प्रयोग में गति लाने के उद्देश्य से हर वर्ष सितंबर महीने में कार्यालय में हिन्दी पखवाड़े के रूप में मनाया जाता है। कोचीन शिपयार्ड में इस वर्ष राजभाषा माह के रूप में मनाया गया, जिसका उद्घाटन दिनांक 03 सितंबर 2019 को श्री रमेश के जी, मुख्य महाप्रबंधक (मा.सं. व प्रशा.) ने दीप प्रज्वलन के साथ किया। जिसमें श्री सुभाष ए के, उप महाप्रबंधक (का.व.प्रशा.) व श्री संपत्त कुमार पी एन, सहायक महाप्रबंधक (प्रशा.) भी उपस्थित थे। कर्मचारियों और कार्यपालक प्रशिक्षार्थियों के लिए हिन्दी में सुलेख, अनुवाद व प्रशासनिक शब्दावली, निबंध लेखन, चित्र क्या कहता है, हिन्दी टंकण, गद्यांश वाचन, भाषण, स्मृति परीक्षा, समाचार वाचन, हिन्दी फिल्म गीत (महिला और पुरुषों के लिए अलग - अलग) और प्रश्नोत्तरी प्रतियोगिताएं आयोजित की गईं। इसके अलावा कंपनी के प्रशिक्षार्थियों व ठेके कर्मचारियों के लिए स्मृति परीक्षा, गद्यांश वाचन, भाषण, हिन्दी फिल्म गीत (महिला और पुरुषों के लिए अलग - अलग) और प्रश्नोत्तरी आदि प्रतियोगिताएं भी आयोजित की गईं। कर्मचारियों के बच्चों के लिए प्रतियोगिताएं तीन स्तरों पर चलाई गईं:- जूनियर स्तर के लिए सुलेख, सब-जूनियर स्तर के लिए कविता पाठ एवं स्मृति परीक्षा और सीनियर स्तर के लिए हिन्दी फिल्म गीत एवं भाषण आदि।

समापन समारोह

राजभाषा माह समारोह का समापन समारोह दिनांक 02 नवंबर 2019, अपराह्न 1430 बजे को समुद्री इंजीनियरी प्रशिक्षण संस्थान (मेट्टी) के



हमारी नई परियोजना (सीकेएसआरयू स्कंध) विभाग को राजभाषा कार्यान्वयन के उत्कृष्ट कार्यान्वयन का भरपूर प्रयास करने हेतु और अपने विभाग में हो रहे पूरे कार्यों को द्विभाषी बनाकर अन्य सभी विभागों को मार्ग दिखाने के लिए यह राजभाषा शील्ड प्रदान किया गया।

पिछले वर्षों की भांति इस वर्ष भी स्वर्गीय शंकर दयाल सिंह स्मारक पुरस्कार



उस व्यक्तित्व को दिया जाता है जिन्होंने अपने कार्यालयीन कार्यों में कदम-कदम में हिंदी को साथ लेकर बढ़ा है। इस वर्ष यह पुरस्कार श्रीमती नयना विजयन के, को दिया गया। इस पुरस्कार वितरण के तुरंत बाद एक विराम लेते हुए श्री वैशाख आर ने अपने मधुर स्वर से सबके मन को मोह किया।

राजभाषा माह के सिलसिले में एक विशेष कार्यक्रम के रूप में एर्णाकुलम जिले के सरकारी स्कूलों का दौरा करके छात्रों को हिंदी भाषा की प्रमुखता एवं उसके प्रति एक सकारात्मक नजरिया उत्पन्न कराने हेतु प्रशिक्षण सत्र एवं निबंध एवं भाषण प्रतियोगिताएं आयोजित की गईं, जिसके विजेताओं को प्रथम पुरस्कार ₹ 5000/- द्वितीय पुरस्कार ₹ 4000/- और तृतीय पुरस्कार ₹ 3000/- तथा प्रमाणपत्र और ट्रॉफी भी दिया गया। राजभाषा माह के कर्मचारियों के बच्चों के लिए आयोजित हिंदी प्रतियोगिताओं के विजेताओं को पुरस्कार प्रदान किया गया। इसके पश्चात दसवीं कक्षा में हिंदी विषय के लिए सबसे अधिक अंक प्राप्त कर्मचारियों के बच्चों को प्रमाणपत्र दिया गया।

राजभाषा माह के प्रतियोगिता के विजेताओं जिसमें कर्मचारीगण, प्रशिक्षार्थीगण और ठेके के कर्मचारीगण शामिल हैं उनको प्रथम पुरस्कार ₹ 1500/-, द्वितीय पुरस्कार ₹ 1250/- और तृतीय पुरस्कार ₹ 1000/- तथा प्रमाणपत्र भी दिया गया। इसके अलावा पुरस्कार न प्राप्त सभी भागीदारों को सांत्वना पुरस्कार के रूप में ₹ 500/- प्रमाणपत्र भी दिया गया। इसके बाद हमारे संगीत टीम ने एक जबरदस्त रीमिक्स गीत को प्रस्तुत किया जिससे सभी की थकान दूर हो गई और कार्यक्रम के अंत की ओर बढ़ते हुए हमारी सहायक प्रबंधक (राजभाषा) श्रीमती सरिता जी द्वारा धन्यवाद ज्ञापन के बाद राष्ट्रगान के साथ भव्य संपन्न हुआ। पूरे कार्यक्रम का संचालन हिंदी कक्षा द्वारा सफल रूप से किया गया।

एर्णाकुलम में हिंदी छात्रों (स्नातक, स्नातकोत्तर, पीएचडी) के लिए हिंदी भाषा के प्रति एक अवबोध एवं सकारात्मक रवैया सृजित करने हेतु एक राजभाषा संवर्धन संगोष्ठी का आयोजन किया गया जिसमें सभी छात्रों ने बढ़-चढ़कर भाग लिया। इस कार्यक्रम के मुख्य संकाय श्री रमेश प्रभु, मुख्य राजभाषा अधीक्षक, एचपीसीएल, कोच्ची थे।

हिंदी कार्यशाला

अक्तूबर दिसंबर तिमाही का एक दिवसीय हिंदी कार्यशाला दिनांक 30.12.2019 (सोमवार) को मुख्य कार्यालय के सम्मेलन कक्ष में पूर्वाह्न 9.30 बजे से अपराह्न 12.30 बजे तक आयोजित की गई। डॉ. हरमन पी जे, सहायक प्रोफसर, कालीकट विश्वविद्यालय, कार्यालय के संकाय थे। अपना परिचय देने के बाद सभी भागीदारों से अपना परिचय कराते हुए सत्र को आगे बढ़ाया, बड़े ही रोचक ढंग से उन्होंने विषय की शुरुआत की। कक्षा में सभी की सहभागिता सुनिश्चित करते हुए उन्होंने सत्र को बड़े रोचक ढंग से बढ़ाया और उन्हें कुछ अभ्यास देते हुए व्यस्त रखा। सभी 34 प्रतिभागियों ने सक्रिय रूप से कार्यशाला में भाग लिया। 🏆



महाराजास कॉलेज, एर्णाकुलम में आयोजित राजभाषा संवर्धन संगोष्ठी

नगर राजभाषा कार्यान्वयन समिति, कोच्ची के तत्वावधान में कोचीन शिपयार्ड लिमिटेड द्वारा दिनांक 28.11.2019 को महाराजास कॉलेज,



27ാമത് അഖിലകേരള ബാലോത്സവം

CSRC യും, കൊച്ചിൻ ഷിഷ്യാർഡും സംയുക്തമായി നടത്തിയ 27ാമത് അഖിലകേരള ബാലോത്സവത്തിന്റെ ഉദ്ഘാടനം നിർവ്വഹിച്ചത് കപ്പൽശാല ചെയർമാനും മാനേജിംഗ് ഡയറക്ടറുമായ ശ്രീ മധു എസ്. നായർ ആയിരുന്നു. പതാക ഉയർത്തിയത് ടെക്നിക്കൽ ഡയറക്ടർ ശ്രീ ബിജോയ് ഭാസ്കറും ആയിരുന്നു.

നവംബർ 9, 10 തീയതികളിൽ 10 സ്റ്റേജുകളിലായി അമ്പം നിന്നുപോകുന്ന കലകൾ ഉൾപ്പെടെ 38ൽ പരം ഇനങ്ങളിൽ 5000ത്തോളം വരുന്ന കുട്ടികൾ മത്സരിക്കുകയുണ്ടായി. ഉത്സവത്തിന്റെ ചരിത്രത്തിൽ ആദ്യമായി ദിനശേഷിക്കാരായ കുട്ടികളെ ഉൾപ്പെടുത്തിയതും, പങ്കെടുത്ത മുഴുവൻ കുട്ടികളുടെ രണ്ട് ദിവസത്തെ ഭക്ഷണം സൗജന്യമായി നൽകിയതും എടുത്തു പറയേണ്ട നേട്ടം തന്നെയായിരുന്നു.

15-ാം തീയതി നടത്തിയ അവാർഡ് നിശ ഉദ്ഘാടനം നടത്തിയത് കപ്പൽശാല ഡയറക്ടർ ഓപ്പറേഷൻസ് ശ്രീ. എൻ.വി. സുരേഷ് ബാബു സാറായിരുന്നു. സി.ജി.എം. എച്ച്.ആർ. ശ്രീ രമേഷ് സാറിന്റെ സാന്നിദ്ധ്യം പ്രത്യേകം ശ്രദ്ധേയമായിരുന്നു. കൂടാതെ സമാനദാനത്തിന് നിരവധി സിനിമാതാരങ്ങളും പങ്കെടുക്കുകയുണ്ടായി.

ഡിസംബർ മാസത്തിൽ പ്രശസ്ത കഥാകൃത്ത് ശ്രീ സുഭാഷ് ചന്ദ്രൻ അവർകളുടെ ഘടികാരം നിലയ്ക്കുന്ന സമയം എന്ന ചെറുകഥയുടെ സാഹിത്യ സംവാദം നടത്തുകയുണ്ടായി കൂടാതെ സി.എസ്.ആർ.സി.യുടെ

പത്രണായിരത്തോളം വരുന്ന ലൈബ്രറി ബുക്കുകളുടെ മുഴുവൻ വിവരങ്ങൾ കമ്പ്യൂട്ടർ ഡാറ്റയായി ചേർക്കുന്ന ജോലിയും പുരോഗമിക്കുകയാണ്. ▶





അഗതികളുടെ ആശ്രയമായ പെരുമാനൂർ എസ്. ഡി. ഹോമിന് കൊച്ചി കപ്പൽശാല വാഹനം വാങ്ങി നൽകി

കപ്പൽശാലയുടെ അയൽ സ്ഥാപനവും അഗതികളുടെ ആശ്രയവുമായ പെരുമാനൂർ എസ്.ഡി. ഹോമിന് കൊച്ചി കപ്പൽശാല വാങ്ങി നൽകിയ വാഹനത്തിന്റെ താക്കോൽദാനം കൊച്ചി കപ്പൽശാല ചീഫ് ജനറൽ മാനേജർ (എച്ച്.ആർ & ട്രെയിനിങ്ങ്) ശ്രീ. കെ.ജെ. രമേഷ് മദർ സുഷീരിയർ സിസ്റ്റർ ട്രീസ എസ്. ഡി ക്കു നൽകി നിർവ്വഹിച്ചു. ചടങ്ങിൽ കപ്പൽശാല സി.എസ്.ആർ വിഭാഗം മേധാവി ശ്രീ. പി. എൻ സമ്പത് കുമാർ, ഡെപ്യൂട്ടി മാനേജർ ശ്രീ.യുസഫ്.എ.കെ എന്നിവർ സന്നിഹിതരായിരുന്നു. എസ്.ഡി. ഹോമിലെ അന്തേവാസികൾക്ക് വർഷങ്ങളായി കൊച്ചി



കപ്പൽശാല കാന്റീനിൽ നിന്നുമാണ് ഭക്ഷണം എത്തിച്ചു കൊടുക്കുന്നത്.

ചങ്ങനാശ്ശേരി ആയുഷ്യ ഹീലിംഗ് & പാലിയേറ്റീവ് കെയർ സെന്ററിന് ഹോം കെയർ സേവനങ്ങൾക്കായി കൊച്ചി കപ്പൽശാല ഒരു വാഹനം വാങ്ങി നൽകി.

ചങ്ങനാശ്ശേരി: കിടപ്പിലായ രോഗികളുടെ പരിചരണത്തിൽ മാതൃകാ പരമായ പ്രവർത്തനം നടത്തി വരുന്ന ആയുഷ്യ ഹീലിംഗ് & പാലിയേറ്റീവ് കെയർ സെന്ററിന് കൊച്ചി കപ്പൽശാല വാങ്ങി നൽകിയ മാരുതി ഇക്കോ വാഹനത്തിന്റെ താക്കോൽദാനം കൊച്ചി കപ്പൽശാല ഡയറക്ടർ അഡ്വ. ബി. രാധാകൃഷ്ണ മേനോൻ സിസ്റ്റർ ഡൊളൊറസ് കണ്ണംപുഴക്കു നൽകി നിർവ്വഹിച്ചു. ചടങ്ങിൽ ഗ്രാമ പഞ്ചായത്തംഗം ശ്രീമതി. ബീന തോംസൺ, ആയുഷ്യ ഡയറക്ടർ സിസ്റ്റർ ബിയ ചാത്തം കോട്ട്, കൊച്ചി കപ്പൽശാല ഡെപ്യൂട്ടി



മാനേജർമാരായ ശ്രീ. ശശീന്ദ്രദാസ്. പി. എസ്, ശ്രീ. യുസഫ്. എ. കെ എന്നിവർ സന്നിഹിതരായിരുന്നു.

CONGRATULATIONS ON YOUR PROMOTION

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(CMSRU MUMBAI) 3179

DEPUTY GENERAL MANAGER



NAGESH KRISHNA MOORTHY (IQC)
4404



PRASANTH P K (SR)
3977



ANOOP DAS (IAC)
4405



GIRISH K S (SB)
3276



BINOJ SHANKAR (PLNG)
3283



HARI RAJA P C (ISRF)
4411



BINU VARGHESE (CIVIL)
3483

ASSISTANT GENERAL MANAGER



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3384



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3370



HARIKISHEN E S (SR)
3371



JOBY VARGHESE (SB)
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ASSISTANT GENERAL MANAGER



VARGHESE P J (SB)
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3356



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4409



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3359

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3089



VIMAL MANI (TECH)
3618



MINI K K (TECH)
3068



SABU T K (TECH)
3069



KEVIN JOHNSON (CIVIL)
3609

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4159



KRISHNAPRASAD S (TECH)
4169



FINZ GEORGE (TECH)
4161



ARAVIND VIJAY (TECH)
4160



ARUNDAS C (TECH)
4165

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(TECHNICAL) 4163



VISHNUDEEP PANICKER
(TECHNICAL) 4166



ANEESH T K (SC)
(TECHNICAL) 4164



ANOOP T S (OBC)
(TECHNICAL) 4168



ROBIN CHERIAN (ST)
(TECHNICAL) 4167
(PERL & ADMN)



KEERTHI R (PERL & ADMN)
4172



DR. ALEXANDER JOSEPH
(PERL & ADMN) 4717



SHITHIL NATH K G
(FINANCE) 4173



ANEESH V R (FINANCE)
4157



MIDHUN V (PWBD) (FINANCE)
4692 (FINANCE-IT)



NIMITHA T (FINANCE-IT)
4171



SREEJITH GOPAL
(FINANCE-IT) 4170

CAREER ADVANCEMENT - DY. MANAGER



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(TECHNICAL) 3321



REGHUNADHAN P B
(TECHNICAL) 2874



THYAGARAJA M (ST)
(TECHNICAL) 3090



VIJAYANANDU P K
(TECHNICAL) 2909



JITHIN XAVIER
(TECHNICAL) 3764



SREELETHA R
(PERL & ADMN) 3014



DINAMANI M I
(PERL & ADMN) 3050

PROMOTIONS TO ASST. MANAGER



SARASWATHY KC
(MECHANICAL) 3098



LALSANA L
(ELECTRICAL) 3323



SIVARAMAKRISHNAN NAIR PS
(ELECTRICAL) 2703



NAGARAJ E
(ELECTRICAL) 3973



SUBHAGAN NJ
(ELECTRICAL) 3163



PEETHAMBARAN PG
(ELECTRONICS) 2797



NARAYANANKUTTY B
(MATERIALS) 2580

CONGRATULATIONS ON YOUR PROMOTION

FROM PS-I TO PS-II			
Sl No	Code No	Name	Designation in PS-II grade
1	3149	Smt Sumi Samuel	Assistant Administrative Officer-SG.
2	3146	Smt Gracy M P	Assistant Administrative Officer-SG.
3	3322	Shri Subrahmanyam K T	Assistant Engineer – SG.
4	3095	Shri Ravikumar P M	Assistant Engineer – SG.
5	3101	Shri Dharmalingam K	Assistant Engineer – SG.
6	3380	Shri Sijo Joseph E S	Assistant Engineer – SG.
7	2691	Shri Babu A T	Assistant Engineer – SG.
8	2880	Shri Gopinathan Pillai K	Assistant Engineer – SG.
9	2864	Shri Dasan K B	Assistant Engineer – SG.
10	2897	Shri Pramode K P	Assistant Engineer – SG.
11	2935	Shri James M P	Assistant Engineer – SG.

CAREER ADVANCEMENT OF WORKMEN			
Sl. No	Code No	Name	Designation / Grade
1	3646	Smt Jayasreedevi K V	SASTW8
2	3067	Shri Shaji K	DSO (LI)W11
3	3760	Shri Joseph P P	SSDEW9
4	3761	Shri Hariprasad K	SSDEW9
5	3762	Shri Arun Sreedhar	SSDEW9
6	3748	Shri Mahesh K R	SSDMW9
7	3749	Shri Paul Sebastian	SSDMW9
8	3751	Shri Bijeeesh T G	SSDMW9
9	3752	Shri Karthik K	SSDMW9
10	3753	Shri Jitha Sreeram A R	SSDMW9
11	3754	Shri Biju S	SSDMW9
12	3755	Shri Sabu M S	SSDMW9
13	3756	Shri Pradeep B	SSDMW9
14	3758	Shri Arunraj J R	SSDMW9
15	3763	Shri Elias K John	SSDINW9
16	3154	Shri Ramachandran V V	SHVDW9
17	3155	Shri Saji K R	SHVDW9
18	4351	Shri Vinu K R	SFMW6
19	4352	Shri Vinu A N	SFMW6
20	4353	Shri Andrews Thomas K	SFMW6

CONGRATULATIONS ON YOUR PROMOTION

CAREER ADVANCEMENT OF WORKMEN			
Sl. No	Code No	Name	Designation / Grade
21	4354	Shri Vibeesh T R	SFMW6
22	4355	Shri Joseph T R	SFMW6
23	4392	Shri Regimon P K	SFMW6
24	4350	Shri Baby M T	CODW7
25	4381	Shri Chandran N M	CODW7
26	3047	Shri Saravanan P	DCM (EC)
27	4344	Shri Mohammed Shakeel E	COEW7
28	4345	Shri Dipin K C	COEW7
29	4346	Shri Dinil P K	COEW7
30	4347	Shri Santhosh Kumar K	COEW7
31	4348	Shri Vipin Krishnan	COEW7
32	4349	Shri Sreejith P J	COEW7
33	4311	Shri Muhammed Riyas P	FTEW7
34	4312	Shri Praveen P K	FTEW7
35	4313	Shri Vivek K	FTEW7
36	4314	Shri Assainar Parakkundil	FTEW7
37	4315	Shri Vinod P	FTEW7
38	4316	Shri Binoy P V	FTEW7
39	4317	Shri Linson K L	FTEW7
40	4318	Shri Sajan V P	FTEW7
41	4319	Shri Rajiv Madathodi	FTEW7
42	4320	Shri Mohammed Shereef M P	FTEW7
43	4321	Shri Aneesh M	FTEW7
44	4322	Shri Pramod K R	FTEW7
45	4323	Shri Arun Kumar K K	FTEW7
46	4324	Shri Ratheesh Krishna P K	FTEW7
47	4325	Shri Baburaj P T	FTEW7
48	4326	Shri Sajeevan K A	FTEW7
49	4327	Shri Mohamed Shafeek K T	FTEW7
50	4328	Shri Srajumon K	FTEW7
51	4329	Shri Mohammed Subair T	FTEW7
52	4330	Shri Muhammed Rafeek C K	FTEW7
53	4331	Jestin John	FTEW7
54	4332	Shri Shaiju N B	FTEW7
55	4333	Shri Sarin Mohan	FTEW7
56	4376	Shri Raja N	FTEW7
57	4377	Shri Satheeshkumar K K	FTEW7
58	4380	Shri Rajagopal A	FTEW7
59	4385	Shri Sajeev P K	FTEW7
60	4334	Shri Akbar Fairoos K T	FETOW7
61	4335	Shri Arun G Krishnan	FETOW7



CONGRATULATIONS ON YOUR PROMOTION

CAREER ADVANCEMENT OF WORKMEN			
Sl. No	Code No	Name	Designation / Grade
62	4298	Shri Hareesh Kumar M	WLF (EN)W7
63	4299	Shri Liju R Nair	WLF (EN)W7
64	4300	Shri Ajeesh V S	WLF (EN)W7
65	4301	Shri Mukesh M	WLF (EN)W7
66	4302	Shri Miju Sukumaran	WLF (EN)W7
67	4303	Shri Hareesh R K	WLF (EN)W7
68	4304	Shri Shiju P	WLF (EN)W7
69	4305	Shri Lalu K	WLF (EN)W7
70	4306	Shri Bibin Das P	WLF (EN)W7
71	4308	Shri Sanal Sebastian K S	WLF (EN)W7
72	4309	Shri Hareesh P	WLF (EN)W7
73	4310	Shri Ramesh K	WLF (EN)W7
74	4220	Shri Sarath T S	IMW7
75	4221	Shri Lal K M	IMW7
76	4338	Shri Anoop M	MCTW7
77	4339	Shri Abhilash T	MCTW7
78	4340	Shri Praveen P	MCTW7
79	4341	Shri Shambhu Santh	MCTW7
80	4342	Shri Ajesh M A	MCTW7
81	4343	Shri Baby John	MCTW7
82	4384	Shri Joshi P M	MCTW7
83	3647	Shri Saji T C	SWLF (MT)W8
84	3839	Shri Sreejith R	WLF (MT)W7
85	4279	Shri Ajith Kumar N G	WLF (MT)W7
86	4280	Shri Vijeesh P	WLF (MT)W7
87	4281	Shri Srijinlal T V	WLF (MT)W7
88	4282	Shri Sandeep Kumar P	WLF (MT)W7
89	4283	Shri Pradeesh P	WLF (MT)W7
90	4284	Shri Lijo C J	WLF (MT)W7
91	4285	Shri Antony Bovy K A	WLF (MT)W7
92	4286	Shri Stalin S	WLF (MT)W7
93	4287	Shri Vipin P V	WLF (MT)W7
94	4288	Shri Renoy John	WLF (MT)W7
95	4289	Shri Prasobhlal P P	WLF (MT)W7
96	4291	Shri Prakash Peter	WLF (MT)W7
97	4292	Shri Vineesh Mon V	WLF (MT)W7
98	4293	Shri Jaison O J	WLF (MT)W7
99	4294	Shri Pramod M M	WLF (MT)W7
100	4295	Shri Jeyapaul A	WLF (MT)W7
101	4296	Shri Vineesh K V	WLF (MT)W7
102	4297	Shri Unni V S	WLF (MT)W7

CONGRATULATIONS ON YOUR PROMOTION

CAREER ADVANCEMENT OF WORKMEN			
Sl. No	Code No	Name	Designation / Grade
103	4307	Shri Sajith Kumar T S	WLF (MT)W7
104	4371	Shri Dipu R S	WLF (MT)W7
105	4372	Shri Sarin T	WLF (MT)W7
106	4375	Shri Sreejith S	WLF (MT)W7
107	3648	Shri Sarath Kumar E S	SWLF (FP)W8
108	4265	Shri Sumesh S	WLF (FP)W7
109	4266	Shri Abhilash Thomas	WLF (FP)W7
110	4267	Shri Safeersha C S	WLF (FP)W7
111	4268	Shri Anuroop R	WLF (FP)W7
112	4269	Shri Sumesh Kumar M	WLF (FP)W7
113	4270	Shri Ratheesh M T	WLF (FP)W7
114	4271	Shri Renil Raj K R	WLF (FP)W7
115	4272	Shri Kailasan N	WLF (FP)W7
116	4273	Shri Sreekanth T S	WLF (FP)W7
117	4274	Shri Nimesh K	WLF (FP)W7
118	4276	Shri Ajay M S	WLF (FP)W7
119	4277	Shri Ratheep Kumar V	WLF (FP)W7
120	4278	Shri Shine Samuel	WLF (FP)W7
121	4391	Shri Pradeep S	WLF (FP)W7
122	3024	Shri Thomas George	DCM-WF (ST)
123	4241	Shri Ranjith K R	WLF (ST)W7
124	4242	Shri Dileepkumar M	WLF (ST)W7
125	4243	Shri Shinoj K	WLF (ST)W7
126	4244	Shri Syam Jith A K	WLF (ST)W7
127	4245	Shri Satheesh R	WLF (ST)W7
128	4246	Shri Shenil Shanmughan S	WLF (ST)W7
129	4247	Shri Gireesh D G	WLF (ST)W7
130	4248	Shri Jinesh V	WLF (ST)W7
131	4249	Shri Bruze Joseph P L	WLF (ST)W7
132	4250	Shri Vishnu T	WLF (ST)W7
133	4251	Shri Vintu T K	WLF (ST)W7
134	4252	Shri Rakesh R	WLF (ST)W7
135	4253	Shri Vishnu V S	WLF (ST)W7
136	4254	Shri Jayakumar T	WLF (ST)W7
137	4255	Shri Pratheeshraj S R	WLF (ST)W7
138	4256	Shri Aneesh K P	WLF (ST)W7
139	4257	Shri Rejith S	WLF (ST)W7
140	4258	Shri Sreejith P V	WLF (ST)W7
141	4259	Shri Anoop H	WLF (ST)W7
142	4260	Shri Sajith P John	WLF (ST)W7
143	4261	Shri Shiju Karappurath Puthan Purayil	WLF (ST)W7

CONGRATULATIONS ON YOUR PROMOTION

CAREER ADVANCEMENT OF WORKMEN			
Sl. No	Code No	Name	Designation / Grade
144	4262	Shri Shani S	WLF (ST)W7
145	4263	Ms. Renjini M D	WLF (ST)W7
146	4264	Shri Vipindas K P	WLF (ST)W7
147	4378	Shri Saneesh K N	WLF (ST)W7
148	2689	Shri Iype Koshy	CHMN (W)W12
149	4007	Shri Sandeep M J	WLF (W)W7
150	4222	Shri Rajesh V	WLF (W)W7
151	4223	Shri Abhijith P S	WLF (W)W7
152	4224	Shri Shinju Kizhakke Parambath	WLF (W)W7
153	4225	Shri Jomon K V	WLF (W)W7
154	4226	Shri Subin V S	WLF (W)W7
155	4227	Shri Sreeraj P T	WLF (W)W7
156	4228	Shri Sreejesh P C	WLF (W)W7
157	4229	Shri Shibu T K	WLF (W)W7
158	4230	Shri Manoj M	WLF (W)W7
159	4231	Shri Anoop V P	WLF (W)W7
160	4232	Shri Jaimon A J	WLF (W)W7
161	4233	Shri Prajosh K	WLF (W)W7
162	4234	Shri Sunesh K K	WLF (W)W7
163	4235	Shri Jinesh U V	WLF (W)W7
164	4236	Shri Rajeesh K S	WLF (W)W7
165	4237	Shri Abhishek S	WLF (W)W7
166	4238	Shri Jayesh K P	WLF (W)W7
167	4239	Shri Sumesh M M	WLF (W)W7
168	4240	Shri Jijo M T	WLF (W)W7
169	4388	Shri Ajith Kumar P S	WLF (W)W7
170	4336	Shri Rajesh Menon R	PTRW7
171	4337	Shri Raghunath K	SWWW7
172	4356	Shri Santhosh M G	RGRW6
173	4357	Shri Shemeer P A	RGRW6
174	4359	Shri Shimji Varghese	RGRW6
175	4360	Shri Jipson Paul	RGRW6
176	4361	Shri Siju V G	RGRW6
177	4362	Shri Subramaniya Pilla N S	RGRW6
178	4363	Shri Shiju K S	RGRW6
179	4364	Shri Jamal P A	RGRW6
180	4365	Shri Suresh A T	RGRW6
181	3337	Ms. Maimu P	SACW5
182	3338	Ms. Sobha K B	SACW5

COCHIN SHIPYARD WISHES YOU HAPPY, HEALTHY, PEACEFUL AND PROSPEROUS RETIRED LIFE.

OCT 2019



1. Shri Mohan S, AE (SG), Code No.2762
2. Smt Sobha A, Supdt (Office), Code NO.2806
3. Shri Cletus M G, Chargeman (W/F), Code No.2889
4. Shri Kunjimoideen EM, Head Service Asst (Canteen) Code NO.3195

NOV 2019



SUBRAMANIAN MK
Assistant General Manager (EE & I)



COCHIN SHIPYARD WISHES YOU HAPPY, HEALTHY, PEACEFUL AND PROSPEROUS RETIRED LIFE.

DEC 2019



1) ABDUL SALAM K H
Engineer

2) JAMES P J
Chargeman (Welder cum Fitter) (W)

രചനകൾ ക്ഷണിക്കുന്നു



കോഷ്യാ ഡൈജസ്റ്റിലേക്ക് കപ്പൽശാലാ ജീവനക്കാരിൽ നിന്നും അവരുടെ കുടുംബാംഗങ്ങളിൽ നിന്നും പ്രസിദ്ധീകരണയോഗ്യമായ ലേഖനങ്ങൾ, കഥകൾ, കവിതകൾ, ചിത്രങ്ങൾ, കാർട്ടൂണുകൾ എന്നീ രചനകൾ ക്ഷണിക്കുന്നു.

രചനകൾ മൗലികവും മറ്റിടങ്ങളിൽ പ്രസിദ്ധീകരിക്കപ്പെടാത്തവയുമായിരിക്കണം. ട്രെയിനികൾക്കും On Contract ജീവനക്കാർക്കും പങ്കെടുക്കാൻ സ്വാഗതം.

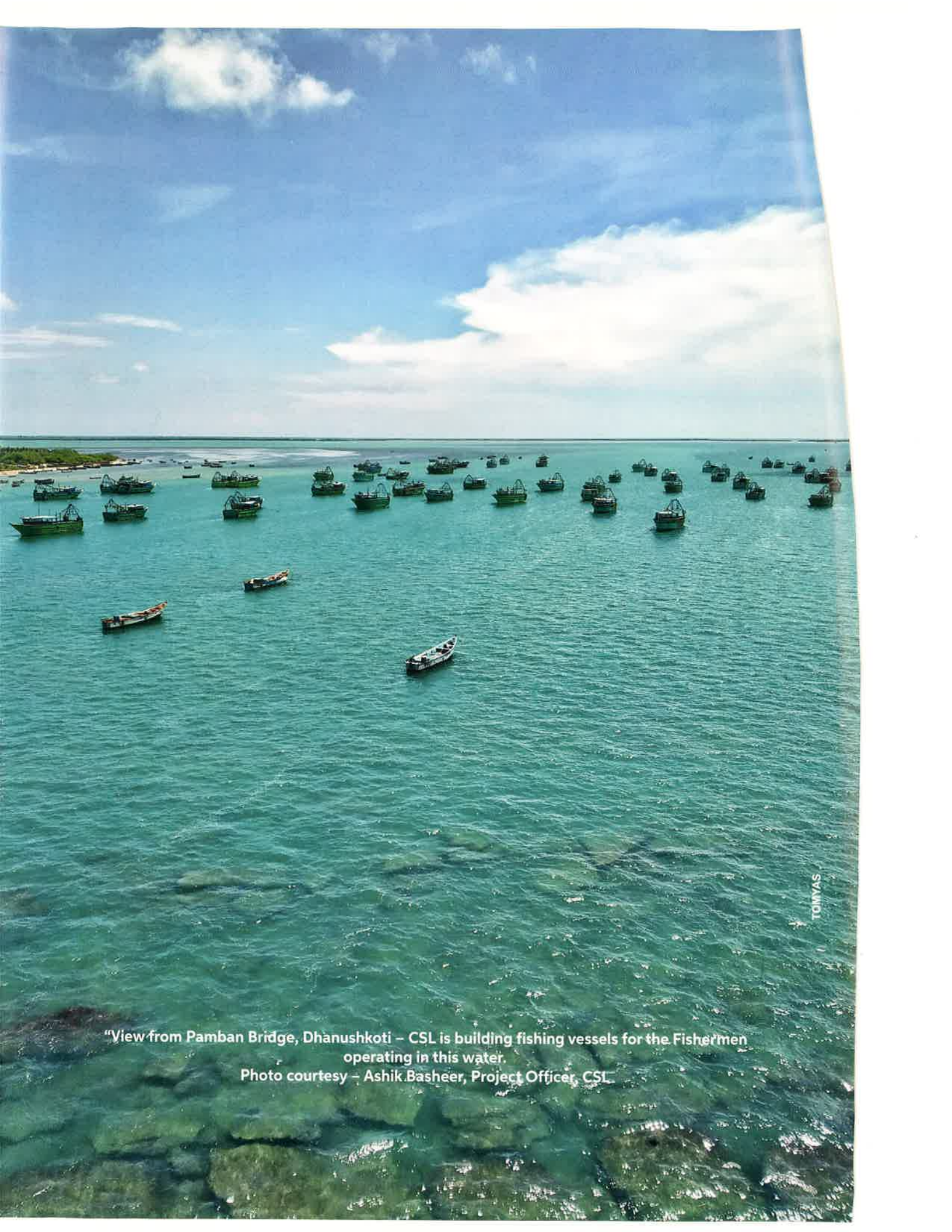
ഇംഗ്ലീഷിലോ, മലയാളത്തിലോ, ഹിന്ദിയിലോ ഉള്ള രചനകൾ അസിസ്റ്റന്റ് ജനറൽ മാനേജർ (CSR) യെ ഏൽപ്പിക്കുകയോ csl.coshya@cochinshipyard.com എന്ന ഇമെയിൽ വിലാസത്തിൽ അയക്കുകയോ ചെയ്യാവുന്നതാണ്.



Photo courtesy:

TONY THOMAS

Junior Technical Assistant (Electronics), CSL.



TOMYAS

"View from Pamban Bridge, Dhanushkoti – CSL is building fishing vessels for the Fishermen operating in this water.

Photo courtesy – Ashik.Basheer, Project Officer, CSL