

APRIL - 2023

# GRSE *Varta*

HOUSE JOURNAL OF GRSE



In Pursuit of Excellence & Quality in Shipbuilding



# Launching of 07 Ships in 11 Months (May 22 - Mar 23)



FPV, ICGS Kamla Devi



SVL, INS Nirdeshak

Ocean Going Passenger & Cargo Ferry for Guyana, MV Ma Lisha



P17A Advanced Frigate, INS Dunagiri



SVL, INS Ikshak



ASWSWC, INS Arnala



ASWSWC, INS Androth



## Message from Chairman and Managing Director



On this joyous occasion of release of GRSE Varta – 2023, I would like to convey my warm wishes to “Team GRSE” - all GRSE employees & their families. I also extend my heartiest congratulations to the Editorial Team on their concerted efforts in preparing such a professionally crafted in-house journal.

Over the last 63 years, GRSE has evolved as a mature shipyard that presently represents the indigenous shipbuilding prowess of our Nation. “Brand GRSE” epitomises pure excellence with a robust value system which has helped us emerge as one of the leading shipbuilders of the country.

For us, 2022-23 was a significant year for many reasons. The best ever financial performance in history of the company, achieved during this year, was the result of several key production milestones. These include the launches of 2<sup>nd</sup> P17 A Advanced Frigate, 2<sup>nd</sup> & 3<sup>rd</sup> Survey Vessel (Large), Fast Patrol Vessel ICGS Kamla Devi, Ocean-Going Passenger & Cargo Ferry Vessel ‘MV Ma Lisha’ for the Cooperative Republic of Guyana, and the 1<sup>st</sup> Anti-Submarine Warfare Shallow Water Craft. Moreover, we successfully undertook Keel Laying five warships during the year. Again, on 12 Jan 23, we created history with twin events, as we commissioned ICGS Kamla Devi, the Fast Patrol Vessel (FPV) and Flagged-off the Ocean-Going Ferry to Guyana from GRSE. No less a feat was the keel laying of the first New Generation Electric Ferry being built for the Government of West Bengal on 19 Jan 23. This zero-emission Ferry, designed by GRSE, is poised to revolutionise passenger transport across River Hooghly as well as the movement of vessels along National Waterways I.

During the year, GRSE also signed 30 MoUs with National & International Organisations including 13 MoUs signed at Defexpo 2022 and 09 MoUs at Aero India 2023. Other notable milestones include launching of AI Enabled NDT, Intelligent Weld Inspector (IWI) by Shri Rajnath Singh, Hon’ble Raksha Mantri. In a major step towards bolstering the ‘Make in India’ initiative, we signed another MoU with Rolls Royce Solutions of Germany for manufacture of high-quality marine diesel engines.

Like every year this year too, a delightful assortment of prestigious awards and accolades brought bright glory to GRSE. To mention a few - Governance Now 9th PSU Awards for “CSR Commitment”, “Digital PSU”, “Reskilling of Employees” & “Communication Outreach”, WIPS Award 2022 in the Category “Best Enterprise”, Maritime OHS&E Award in the Category “Fire Excellence” and “Environment Excellence”, PRSI National Award 2022 in the Categories “Best Organisational Efforts”, “New R&D Efforts in Defence Sector” & “Outstanding Initiatives for Promoting Medical & Health” and the prestigious Raksha Mantri Award for “Designing the Most Silent Ship for Indian Navy for ASW Operations”. As the GRSE built warships keep the maritime security forces of our Nation sharp and potent, I thank each one of you for your whole-hearted efforts in achieving the seemingly impossible production targets despite numerous challenges! As we move forward, innovation and new technology adaption in all segments of operations will be a key focus area. I wish “Team GRSE” the very best in achievement of our “Vision, Mission and the Objectives”.

Jai Hind! Jai GRSE!

Cmde PR Hari, IN (Retd.)



## Message from Director (Finance)

I am elated and delighted to share with all of you the inhouse journal, GRSE Varta 2023 which is being published on the occasion marking the Company's 63<sup>rd</sup> year as a Defence Public Sector Undertaking. This year has been challenging for all the people in the country as well as the economy of the nation, but still, GRSE as an organization held it in sync with coordination and united efforts. I am obligated to each and every one in GRSE for being compassionate and responsible.

I am extremely proud to share that the indomitable spirit of team GRSE for constantly raising the bar has made the shipyard register a strong Order Book of Rs 22,242.42 Cr as on 31 Dec 2022.

The company is facing challenges due to the impact of COVID, Ukraine War, Disruption of supply chain and global financial crisis. We are continuously and closely monitoring these developments and

possible effects on financial parameters including liquidity and our operations. All efforts are being made to minimize the impact of these unprecedented situation. Happy to note that, despite the challenging situation, financials for FY-22 and subsequent three quarters for FY-23 are in upward trend and encouraging.

As we move forward to a brand-new year, the business environment is becoming increasingly complex and challenging. To remain viable as well as to achieve better profit margins, the company also needs to adopt new strategies to cut down cost and time and to ensure timely deliveries of ships. This will only be possible by improving the internal efficiencies in various areas of our operations. To remain competitive and resilient we will also need to align our strategy with the global yardsticks and achieve high efficiency and cost effectiveness in the bidding processes.

I would like to thank you all for your significant contribution in achieving our last year's targets. As we move on to the year 2023, may we gear up with greater vigour and enthusiasm and harness all our strength and resources to achieve higher goals through more effective contributions. The year ahead bring immense opportunities for all of us at GRSE so that we can collectively take GRSE to newer heights making it one of the leading shipyards of the world!

Jai Hind!  
Jai GRSE!



Shri RK Dash



## Message from Director (Shipbuilding)

I am very pleased to witness the new edition of GRSE Varta 2023. Through this publication, we associate with each other in a distinctive way. GRSE is steadfast to compete on the global foot and maximize its reach with modernization and advance technological inclusions as the most credible Defence PSU of the Nation.

Today, GRSE has deftly established its mettle as a pioneer warship-builder of the nation – the array of world-class platforms including Frigates, Missile Corvettes, Anti-Submarine Warfare Corvettes and Landing Craft Utility Ships, FPVs, IPVs, OPVs, Hovercraft, as well as FIBs for MHA - all of them armed with high-tech infrastructure for the Indian Navy and Coast Guard - stands testament to it.

2022-23 was a great year for us from shipbuilding perspective. We accomplished significant milestones which include launching of 2<sup>nd</sup> P17A Advanced Frigate INS Dunagiri, 2<sup>nd</sup> & 3<sup>rd</sup> Survey Vessel (Large), INS Nirdeshak and INS Ikshak, Fast Patrol Vessel ICGS Kamla Devi and Ocean-Going Passenger & Cargo Ferry Vessel for the Cooperative Republic of Guyana in 2022 Ma Lisha. 1<sup>st</sup> and 2<sup>nd</sup> ASWSWC Arnala and Androth were also launched. We also successfully completed the Keel Laying for 4<sup>th</sup> SVL (Yard 3028) and 3<sup>rd</sup> & 4<sup>th</sup> ASWSWC (Yard 3030-31) and 5<sup>th</sup> and 6<sup>th</sup> ASWSWC (Yard 3033 – Yard 3036) and initiated the production of ASWSWC (Yard 3036) and ASWSWC (Yard 3032) in 2022.

Moreover, on 12 Jan 23, we created twin history by commissioning ICGS Kamla Devi, the Fast Patrol Vessel (FPV) designed, and built by (GRSE) and also by Flagging-off of in-house designed Ocean-Going Ferry to Guyana from GRSE, on the same day. Again, on 19 Jan 23 we successfully carried out the keel laying of the first New Generation Electric Ferry built for Government of West Bengal.

Apart from above achievements, we bagged some prestigious awards including 'Raksha Anveshan Ratna Award' at the Raksha Mantri Awards for Excellence in Defence & Aerospace Sector 2022, for 'Design & Development of Silent Ship for Indian Navy' under Innovation category. Additionally, and was also conferred with the Green Channel Certification by Ministry of Defence, GoI for supply of Portable Steel Bridges (Bailey Type) to Indian Army.

I would like to thank you all for your significant contribution in achieving our last year's targets.

Indigenization is now at the core of GRSE's operation and we have established our capabilities for in-house ship design and shipbuilding, across its three distinct shipbuilding units in Kolkata, making significant contribution to the success of the indigenous warship construction programme in India.

The focus on the coming year will be on delivery of, 02 Vessels of Survey Vessel Large, Sandhyak and Nirdeshak, 1<sup>st</sup> ASWSWC Ship and NG Electric Ferry. The launch of the 3<sup>rd</sup> vessel on P17A and design, commercial actions & commencement of production of NGOPVs and hand over of the Guyana Ferry to customer are other key areas. The development & strengthening of our Deck Machinery and Ship Repair Division remains to be in focus.

Infrastructure rejuvenation of RBD for taking on end to the production of warships is ongoing and we look to maximize the benefits due to these secure further orders. As we move forward, I request and exhort all members of Team GRSE to re-dedicate themselves towards our common goal of making our GRSE a name to reckon with in "Delivering Excellence".

The year ahead will bring its own challenges but reinforced with your support and endeavours, keeping focus on priorities and putting customers first, GRSE will be relentless in achieving new milestones!

Jai Hind!  
Jai GRSE!



Cdr. Shantanu Bose, IN (Retd.)



## Message from Chief Vigilance Officer

It gives me immense pride to contribute to "GRSE Varta" 2023; the highly professional in-house journal that captures the glorious achievements of our organisation in the most eloquent ways. It helps in instilling a sense of pride among the employees and other stake holders. Every publication of our GRSE Varta is a testament to the hard work of the editorial team of the journal. I am sure this year's edition will be another proud addition to its repertoire, especially because the year has been quite a significant one for all of us.

From production perspective, FY 2022-23 saw an extremely successful year. Notable achievements include keel laying of the first New Generation zero-emission Electric Ferry built for the Government of West Bengal mainly for Passenger Transport, Twin Keel Laying of in-house designed ASWSWCs (Yard 3033 & 3036) etc.



Shipbuilding at GRSE today is driven by factors like - strengthening internal processes, systems, and infrastructure as well as ensuring cost-effectiveness and facilitating 'ease of Doing Business'. To fulfil the 'Make in India' mission of the Ministry of Defence, we have successfully incorporated a high percentage of indigenous equipment into the ships built for the Indian Navy and the Indian Coast Guard.

The Fast Patrol Vessel 'SCG PS Zoroaster' delivered to the Seychelles Coast Guard, the orders for "Ocean Going Passenger cum Cargo Ferry Vessel" from the Government of Guyana, and patrol boats for the Fisheries Department of Bangladesh to push forward the vision of 'SAGAR', are testaments of GRSE's export expertise and its realigned marketing strategies for meeting global requirements. Notably, all these orders were won through competitive bidding with other international players.

I am happy to see how GRSE is steadily shifting towards smart manufacturing through innovations in automation, robotics and industrial internet of things in its journey towards digitization and strengthening the operation and shipbuilding efficiency while at the same time staying aligned with sustainability principles in all its endeavours. In order to ensure due diligence and economic discretion for all initiatives, the Vigilance Department must stay alert. The team members of Vigilance Department along with all other stakeholders of the Company must be committed towards ensuring zero wastage or idling of resources and leakage of funds. The need of the hour is to comply with all the CVC Guidelines in letter & spirit. As public sector workforce we must prioritise honesty, impartiality and accountability as we deal with public money. I am happy to note, Vigilance department is doing meticulously well in the vigilance activities to pulverize all sorts of corruption. GRSE is going strong on GeM and E-Procurement and it has taken strategic steps and created the online Property Return Application as well as online Vigilance Clearance Module to maintain the transparency, saving of resources and time.

Standing at the threshold of a brand new year let us all pledge to walk the extra mile in making GRSE the very model for highest productivity standards in all areas of operations. May our collective and diligent efforts lead us to the desired goal of - Reduced Cost, Improved Quality and Well-timed Delivery.

Thank you once again for your enormous contributions. I am super excited to look forward for the FY 2023-24 with more dreams becoming reality with our good intuition and endeavor. As I always say, teamwork is the key to overcoming roadblocks and I am confident that by working closely as a team and staying committed in our individual and collective responsibilities, we will continue to draft new sagas of success.

I wish everyone at GRSE greate growth and brighter goals !  
All the best.

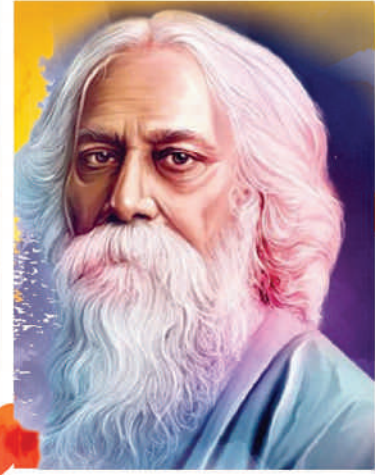
Jai Hind!  
Jai GRSE!

Shri Mihir Kumbhakar, ITS



*Reach high, for stars lie  
hidden in you. Dream  
deep, for every dream  
precedes the goal.*

*-Rabindranath Tagore*





## Magical Milestone

"INS Dunagiri", 2<sup>nd</sup> P17A Advanced Frigate for Indian Navy

### Launching



GRSE accomplished a key milestone in the prestigious Project 17A on 15 Jul 22, with the launch of "Dunagiri" (Yard 3023) the second of GRSE's three Advanced Frigates, by Shri Rajnath Singh, Hon'ble Minister of Defence, Government of India, the Chief Guest on the occasion. Upholding the best of maritime traditions, the 'Naming Ceremony' of the ship was performed by Smt Kala Hari Kumar, wife of Admiral R Hari Kumar, the Chief of Naval Staff, Indian Navy. Admiral R Hari Kumar, the Chief Of Naval Staff, Vice Admiral Biswajit Dasgupta, FOC-in-C Eastern Naval Command, Lt Gen RP Kalita, GOC-in-C East, Cmde PR Hari, IN (Retd.), Chairman and Managing Director, GRSE, and other Senior Officials of Indian Armed Forces, GRSE and a host of other dignitaries were present at the occasion.





## Keel Laying



GRSE touched a key milestone in its Project 17A with the laying of the keel of its second of three Advanced Frigates on 24 Jan 20. The keel was laid at GRSE's Main Works Unit in the august presence of Vice Admiral G Ashok Kumar, AVSM, VSM, Vice Chief of Naval Staff.

## Start Production



GRSE started the production of the Second of Three Advanced Frigates on 30 Jan 19. The Start Production was done at GRSE's Main Works Unit in the august presence of Rear Admiral VK Saxena, IN (Retd.), Chairman & Managing Director, GRSE and other Senior Officials of the Indian Navy and GRSE.



## Magical Milestone

"MV Ma Lisha", Ocean Going Passenger & Cargo Ferry for Cooperative Republic of Guyana

### Flagging Off



Cmde P R Hari IN (Retd), Chairman and Managing Director, GRSE, flagged-off 'MV Ma Lisha', a Passenger-cum-Cargo Ocean Going Ferry built by the shipyard for the Cooperative Republic of Guyana on 12 Jan 23. This is the first such ship built for exports to a Latin American country by any Defence Public Sector shipyard. The MV Ma Lisha, designed and built by GRSE, will move towards Chennai and from thereon she will be loaded onto a semi-submersible vessel MV Sun Rise for her long voyage to Guyana.





## Technical Acceptance



Garden Reach Shipbuilders and Engineers (GRSE) Ltd and Transport & Harbours Department (T&HD), Cooperative Republic of Guyana signed the 'Technical Acceptance' document of the Ocean-Going Passenger & Cargo Ferry Vessel built by GRSE on 15 Dec 22. The technical acceptance was signed by Cmde PR Hari, IN (Retd.), CMD GRSE and Ms Yurlander Hughes, Transport and Harbours Department (T&HD), Guyana, at Kolkata in the presence of officials from GRSE, Ministry of Public Works, Govt of Guyana and Indian MEA.





## Magical Milestone

### Launching



GRSE achieved another milestone in Defence Export with the Launching of MV Ma Lisha (Yard 2119), an Ocean Going Passenger & Cargo Ferry Vessel for the Cooperative Republic of Guyana on 15 Jun 22. Mrs Joan Anita Edghill performed the rituals associated with the launch of the 70 metre long vessel. Hon'ble Bishop Juan Anthony Edghill, Minister of Public Works, the Cooperative Republic of Guyana, was the Chief Guest at the launch ceremony.

### Keel Laying



Marching towards fulfilling the vision of becoming a global shipbuilder, Garden Reach Shipbuilders and Engineers Ltd. (GRSE), a Mini Ratna Category 1 Defence PSU and a leading warship building company of India, achieved another milestone on 20 Nov 21 by laying the Keel of the 'Ocean-Going Passenger cum Cargo Vessel' at Kolkata, a prestigious project for the Co-operative Republic of Guyana.



## Start Production



Garden Reach Shipbuilders and Engineers Ltd., (GRSE), Kolkata, achieved another major milestone on 07 Aug 21, when they started production of the Ocean Going Passenger cum Cargo Ferry Vessel being constructed for the Cooperative Republic of Guyana. The Plate Cutting e-ceremony was held in the august presence of His Excellency, Shri Charrandass

Persaud, Hon'ble High Commissioner of Govt. of Co-Operative Republic of Guyana. Rear Admiral VK Saxena, IN (Retd), Chairman & Managing Director, GRSE, Cmde S Nayyar, IN (Retd.), Director (Shipbuilding), Cmde PR Hari, IN (Retd.), Director (Personnel), Shri R K Dash, Director (Finance) and senior officials of GRSE.

## Contract Signing



It was a huge boost for the export initiatives of GRSE, when the Harbour Department, Ministry of Public Works, Govt of Guyana signed the contract with the shipyard on 13 Jan 21, to build an Ocean-Going Vessel at a cost of 12.7 MUS\$.



# Creating Waves

*"ICGS Kamla Devi", FPV, Yard 2118 for Indian Coast Guard*

## Commissioning



ICGS Kamla Devi, the Fast Patrol Vessel (FPV) designed & built by GRSE for the Indian Coast Guard, was commissioned in Kolkata on 12 Jan 23. DG V S Pathania, PTM, TM, Director General, Indian Coast Guard, was present as Chief Guest during the ceremony that took place at GRSE's Fitting Out Jetty.

GRSE delivered an in-house designed warship, FPV "ICGS Kamla Devi" to the Indian Coast Guard on 31 Dec 22. GRSE has proven expertise in design & construction of patrol vessels having delivered over 40 such ships to the Indian Navy and Indian Coast Guard since 1960. The entire design of these latest FPVs have been developed in-house by GRSE as per requirements specified by the Coast Guard.

## Delivery





## Launching



GRSE Launched the Fast Patrol Vessel (Yard 2118) being built for the Indian Coast Guard (ICG) on 02 May 22. The FPV was christened Indian Coast Guard Ship (ICGS) "Kamla Devi" by Smt. Neela Pathania, wife of DG Virender Singh Pathania, PTM, TM, Director General, Indian Coast Guard. DG Virender Singh Pathania graced the occasion as the Chief Guest.

GRSE laid the keel of Fast Patrol Vessel (FPV) Yard 2118 on 15 Jul 21 at Titagarh Wagons Limited, Kolkata. The keel laying ceremony was held in the august presence of Inspector General Maneesh V Pathak, TM, Commander, Coast Guard Region (North East).

## Keel Laying



## Start Production

GRSE commenced the production of Fast Patrol Vessel (Yard 2118), on 15 Mar 21. The ship is designed in house by GRSE.



## *Launching of Four Other Warships*

### 2<sup>nd</sup> Survey Vessel (Large), "INS Nirdeshak", Yard 3026



2<sup>nd</sup> Survey Vessel (Large), INS Nirdeshak, Yard No 3026, being built by Garden Reach Shipbuilders and Engineers (GRSE) Ltd, was launched by Smt Sarbani Dasgupta, wife of Vice Admiral Biswajit Dasgupta, AVSM, YSM, VSM, Flag Officer Commanding-in-Chief, Eastern Naval Command on 26 May 22. Vice Admiral Biswajit Dasgupta was the Chief Guest at the occasion.

### 3<sup>rd</sup> Survey Vessel (Large), "INS Ikshak", Yard 3027



Maintaining the best of the maritime traditions, the 3<sup>rd</sup> Survey Vessel (Large) - Yard No 3027, built by GRSE, was launched on 26 Nov 22 by Mrs Madhumati Hampiholi, President NWWA (SR). This is the third vessel in a series of four such ships built by GRSE for the Indian Navy. Vice Admiral MA Hampiholi, AVSM, NM, Flag Officer Commanding in Chief, Southern Naval Command, was the Chief Guest at the event. Prior launch, the vessel was named "INS Ikshak".



### 1<sup>st</sup> ASWSWC, "INS Arnala" Yard 3029



The Indian Navy's first Anti-Submarine Warfare Shallow Water Craft (ASWSWC), "INS Arnala" being built by Garden Reach Shipbuilders and Engineers (GRSE) Ltd, was launched by Smt Rasika Chaube, Financial Advisor (Defence Services), Ministry of Defence, on 20 Dec 22.



### 2<sup>nd</sup> ASW SWC, "INS Androth" Yard 3035

As she felt water under her keel for the first time on 21 Mar 23 at Garden Reach Shipbuilders and Engineers (GRSE) Ltd, INS Androth, as this warship was named in a solemn ceremony – the second in a series of eight Anti-Submarine Warfare Shallow Water Craft (ASW SWC) being built by GRSE Ltd for the Indian Navy highlighted the strategic importance of the chain of 36 islands in the Arabian Sea that are part of Indian territory.

Vice Admiral Dinesh K Tripathi, Flag Officer Commanding-in-Chief, Western Naval Command was Chief Guest at the occasion and the ASW Shallow Water ship, INS Androth was christened and launched by Mrs Shashi Tripathi, President, NWWA, Western Region.



## Keel Laying

4<sup>th</sup> Survey Vessel (Large), Yard 3028,  
3<sup>rd</sup> & 4<sup>th</sup> Anti Submarine Warfare Shallow Water  
Craft (ASWSWC), Yard 3030 & 3031



GRSE Laid the Keels of 4<sup>th</sup> Survey Vessel (Large), Yard 3028 and 3<sup>rd</sup> & 4<sup>th</sup> ASW SWC, Yards 3030 & 3031 for Indian Navy on 17 Jun 22.

Garden Reach Shipbuilders and Engineers (GRSE) Ltd achieved a rare feat by laying the keels of three vessels together. While Yard 3028 is the fourth and last in the series of Sandhayak Class Survey Vessel (Large), Yards 3030 and 3031 are the third and fourth in a series of eight Anti-Submarine Warfare (ASW) Shallow Water Craft being built by GRSE for the Indian Navy.



Vice Admiral S N Ghormade, Vice Chief of Naval Staff, PVSM, AVSM, NM, ADC was the chief guest at the occasion.



## 5<sup>th</sup> & 6<sup>th</sup> Anti Submarine Warfare Shallow Water Craft (ASWSWC), Yard 3033 & 3036



GRSE laid the Keels of 5<sup>th</sup> & 6<sup>th</sup> of eight Anti Submarine Warfare Shallow Water Crafts (ASWSWCs), Yard 3033 & 3036 for the Indian Navy on 31 Dec 22 at GRSE Rajabagan Dockyard Unit, Kolkata. The important milestone heralding the start of a ship's construction at site was achieved in the presence of Shri Giridhar Aramane, Defence Secretary, GoI. Vice Admiral Kiran Deshmukh, AVSM, VSM, Controller of Warship Production & Acquisition.

## New Generation Electric Ferry, Yard 2120



GRSE laid the Keel of first New Generation Electric Ferry for the Government of West Bengal in Kolkata on 19 Jan 23. This zero-emission Ferry, designed by GRSE, is poised to revolutionise passenger transport across River Hooghly as well as the movement of vessels along National Waterways I. Shri Binod Kumar, Principal Secretary, Department of Transport, Government of West Bengal, graced the occasion as Chief Guest during the keel laying.



## *Start Production*

### Yard 3036, Anti Submarine Warfare Shallow Water Craft (ASWSWC)



Production of Yard 3036, a Ship among the 08 Anti Submarine Warfare Shallow Water Crafts commenced on 01 Jun 22. The compact and complex ships have been designed in house by GRSE.

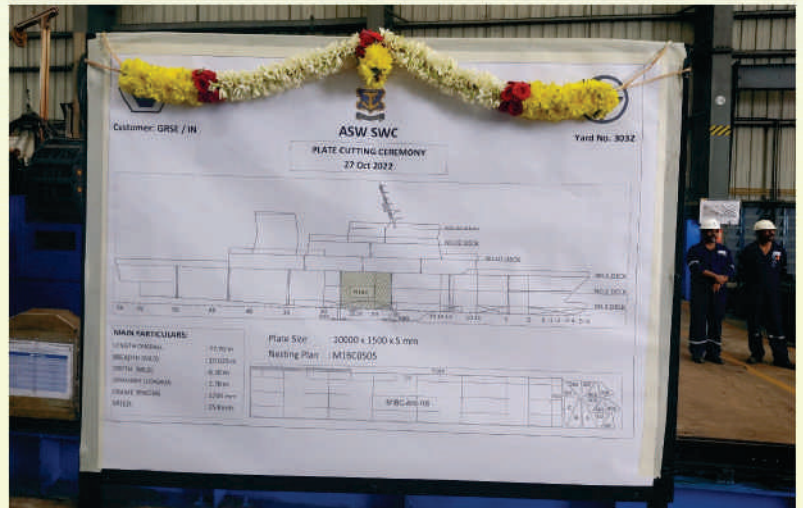




**Yard 3032, Anti Submarine Warfare Shallow Water Craft (ASWSWC)**



Production of Yard 3032, a Ship among the 08 Anti Submarine Warfare Shallow Water Crafts commenced on 27 Oct 22.





## They Said It

*Message from Mr Ralph Hays, New Zealand Consul General during his visit at GRSE on 19 Apr 22*



*"Such a pleasure meeting with Cmde PR Hari to discuss opportunities to collaborate in the marine technology sector. New Zealand and India working together for the benefit of both.*

*"Thank You"*

*Ralph Hays*

*Message from Lt. Gen. Rajeev Chaudhry, VSM, Director General (BRO) during his visit to GRSE on 06 June 22*



*"On my FTRST visit to GRSE. It's really inspiring to learn that GRSE has been the PIONEER in shipbuilding for more than 100 years in India and later in the construction of Bailey and numerous type of modular bridges. The Journey of GRSE has triggered the main PSUs of the country to excel in their respective domains. BRO has moved alongside GRSE to get the country's first CL 70 Double Lane Modular Bridge constructed at Flag Hill. I wish the team GRSE to achieve the highest targets under the dynamic leadership of present Chairman and Managing Director.*

*JAI HIND! JAI GRSE! JAI BRO!"*

*Rajeev Chaudhry*





*Message from Hon'ble Bishop Juan Anthony Edghill, Minister of Public Works, Govt. of the Co-operative Republic of Guyana during his visit to GRSE on 14 Jun 22*



*"Very impressive, well put together, intelligent and knowledgeable team. Professional in approach. Congratulations."*

*Message from Hon'ble Raksha Mantri, Shri Rajnath Singh on the occasion of Launching of TNS Dunagiri, 2nd P17A Advanced Frigate at GRSE on 15 Jul 22*



"विश्वस्तरीय सुविधाओं से लैस इस शानदार शिपयार्ड, जीआरएसई के परिभ्रमण का अनुभव अविस्मरणीय है। यह वास्तव में गर्व की बात है कि अपनी स्थापना से लेकर अब तक इस शिपयार्ड ने 100 से अधिक युद्धपोतों का निर्माण एवं सुपुर्दगी की है जो भारत के किसी भी शिपयार्ड द्वारा निर्मित युद्धपोतों की संख्या से अधिक है। राष्ट्र निर्माण एवं देश की समुद्री सीमाओं को सुरक्षित रखने में इस शिपयार्ड का योगदान अतुलनीय है, मुझे यह जानकर भी प्रसन्नता है की यहाँ बनने वाले पोतों में 90% से अधिक स्वदेशी सामग्री का प्रयोग किया जा रहा है जो आत्मनिर्भर भारत एवं मेक इन इंडिया के सपने को साकार करने की दिशा में श्रेष्ठ कदम है। इसके लिए यहाँ काम करने वाले सभी कर्मचारी बधाई के पात्र है। पोत निर्माण के साथ ही जीआरएसई द्वारा बेली ब्रिज का निर्माण किया जा रहा है जिस से हमारे देश के दुर्गम इलाकों को जोड़ने का महत्वपूर्ण कार्य संभव हो पा रहा है। यहाँ उपलब्ध सुविधाएं और उनके रखरखाव ने मुझे प्रभावित किया है। जीआरएसई का भविष्य बेहद उज्ज्वल है और मुझे पूरा विश्वास है कि पूर्व की भांति यह आगे भी राष्ट्र निर्माण में अपना भरपूर योगदान देती रहेगी। जय हिन्द"





## They Said It

*Message from Admiral R Hari Kumar, PVSM, AVSM, VSM, ADC, Chief of Naval Staff on the occasion of Launching of TNS Dunagiri, 2nd P17A Advanced Frigate at GRSE on 15 Jul 22*



*"On the occasion of the launch of Dunagiri, the very image of such a capable warship being built indigenously at GRSE makes my heart swell with pride. The yard has evolved over time with much advancement in skill, capacity, capability and technology. The ship speaks for itself, in no small measure. The launch is a milestone in the addition of capability at sea for TN. The close interaction and cooperation between TN & GRSE can only translate into even more advance and state-of-the-art capability. I wish the Chairman Cmde PR Hari and his team success in their endeavour to provide teeth to the TN at sea. Thank you for organizing a great function. Jai Hind!"*

*Hari*

*Message from VAdm Adhir Arora NM, Chief Hydrographer during his visit to GRSE on 12 Oct 22*



*"Extremely pleased to see the pace of construction of the Survey Vessels. The quantum of jobs completed, and that too in the most professional manner, speaks volumes of the professionalism of the team under the dynamic leadership of the CMD. Wishing the yard continuous success and laying of many more keels and construction of many more platforms."*

*Adhir*





*Message from Brigadier General Hamid Shafeeq, Commandant, MNDF Service Corps, during his visit to GRSE on 22 Dec 22*



*"It was a very impressive visit and thank you for the kind hospitality provided to me and our team. It was a wonderful and memorable visit. 'Long Live' India-Maldives."*

*Message from Shri Giridhar Aramane IAS, Defence Secretary, GOI, on the occasion of FPV, ICGS Kamla Devi Delivery to ICG and Twin Keel Layings of ASUSWCs, Yard 3033 & 3036 for the Indian Navy at GRSE on 31 Dec 22*



*"Impressed by the excellent performance of GRSE, in recent years. I urge them to focus on building up strength in design capabilities and acquisition of new technologies. I am confident that with focus on these two, GRSE will emerge as top class Naval shipbuilder in the world."*





## They Said It

Message from Shri Binod Kumar, IAS, Principal Secretary, Transport Dept, GOWB during his visit to GRSE on 19 Jan 23



"It was an excellent experience to visit GRSE and attend the function of Keel Laying ceremony of the first-of-its-kind EV vessel being launched by GRSE. Transport dept. GOWB and GRSE have partnered for this project. The facilities here are very impressive and I look forward to more partnerships."

Vice Admiral Dinesh K Tripathi, AVSM, NM, FOC-TN-C (West) during his visit to GRSE on 21 Mar 23 on the occasion of ASWSWC TNS Androth Launching



"Indeed a pleasure to be present and participate in the launching ceremony of the 2nd ship of ASWSWC project. GRSE has indeed been in the forefront of shipbuilding and has scored a century of ships delivered to TN & CG, as also to some friendly foreign countries. The launch of 'Androth' was executed meticulously. I wish the TEAM GRSE the very best and may you continue to build more potent warships.

शं नो वरुणः  
Jai Hind."





*Don't be ashamed of where you come from.  
Don't fret for what is past, nor be anxious  
about the future; wise men deal only with  
the present moment.*

*-Acharya Chanakya*





## Visits



Trainees from ITI Howrah Homes at GRSE on 08 Apr 22



Korean Delegation at GRSE on 19 Apr 22



Bangladesh Navy Delegation at GRSE on 21 Apr 2022



Parliamentary Standing Committee on Defence at GRSE on 22 Apr 22



DG Virender Singh Pathania, PTM, TM Director General, ICG at GRSE on 02 May 22



Green Channel Committee at GRSE on 05 & 06 May 22





Lt Gen Rajeev Chaudhary, VSM,  
Director General (BRO) at GRSE 06 Jun 22



Hon'ble Bishop Juan Anthony Edghill, Minister  
of Public Works, The Cooperative Republic of  
Guyana at GRSE on 14 Jun 22



Trainee Officers from the Institute of Fire  
Service, RTC, Kolkata at GRSE on  
21 & 22 Jun 22



Students from Ramakrishna Mission  
Shilpavidyalaya, Industrial Training Institute, at  
GRSE on 07 Jul 22



Class NK Delegation at GRSE on 03 Aug 22



IMU Cadets at GRSE on 12 Aug 22



## Visits



Philippines Coast Guard (PCG) Delegation at GRSE on 31 Aug 22



Vice Admiral Adhir Arora, NM Chief Hydrographer at GRSE on 12 Oct 22



Guyana Delegation at GRSE from 17-20 Oct 22



NA/DA Designates at GRSE on 01 Nov 22



Specially-abled Children of Behala Naba Prayas School at GRSE on the Occasion of Children's Day on 14 Nov 22



46<sup>th</sup> Higher Air Command Course (HACC) at GRSE on 14 Nov 22





Students from The Bhawanipur Gujarati Education Society School at GRSE on 17 Nov 22



Young Academic Minds from LA Martiniere for Boys at GRSE on 09 Dec 22



Tri Service Higher Command Defence Management Course at GRSE on 13 Dec 22



Students from Social Work Department, Loyola College, Chennai at GRSE on 14 Dec 22



Officers of 75<sup>th</sup> Divisional Officers Course, NFSC, Nagpur conducted by RTC, WBF&ES Kolkata at GRSE on 15 Dec 22



Maldives Delegation at GRSE on 22 Dec 22



## Visits



Trainee Officers of 48<sup>th</sup> External Sub Officer Course, NFSC, Nagpur at GRSE on 22 Dec 22



Shri Giridhar Aramane, IAS, Defence Secretary, GOI at GRSE on 31 Dec 22



85<sup>th</sup> Station Officers & Instructors Course NFSC Nagpur at GRSE on 05 Jan 23



Young Academic Minds from BDM International School Kolkata at GRSE on 13 Jan 23



Young Academic Minds from South City International School, Kolkata at GRSE on 27 Jan 23



Vice Admiral Adhir Arora, AVSM, NM, Chief Hydrographer at GRSE on 17 Feb 23



*Vision without action is merely a dream;  
Action without vision is merely passing time;  
but vision and action together can change  
the world.*

*-Sudha Murthy*





## Outreach



Shri R K Dash, Director (Finance), GRSE participated at a Seminar on "Cost Excellence-A Sustainable Business Strategy" organised by ICAI, Bhubaneswar Chapter on 13-15 May 22

Cdr Shantanu Bose, Director (Shipbuilding), GRSE at DIMS on 09 Aug 22



CMD, GRSE as Chief Guest at Synergy 2022, Seminar on Introduction to Ship Construction Activities at IMU, Kolkata on 11 Aug 22



Cdr. Shantanu Bose, D(S) as Chief Guest at The Neotia University, Kolkata on 10 Sep 22







Hon'ble Raksha Rajya Mantri, Shri Ajay Bhatt at the GRSE Stall during the National Defence MSME Conclave and Exhibition at Rajasthan, Kota on 12 Sep 22

Cmdr PR Hari, CMD, GRSE & Cdr Shantanu Bose, D(S), GRSE as Key Speakers in a Session at the 2<sup>nd</sup> East India Summit, organised by CII at Kolkata on 13 Sep 22



CMD GRSE as Chief Guest at the Release of Special Cover Diamond Jubilee [WOT Kolkata] on 21 Nov 22



# MoU & Contracts



Signing of Contract with Government of West Bengal for the construction of Next Generation Electric Ferry on 05 Jul 22



MoU with 13 National & International Organisations at DefExpo- 22 on 20 Oct 22



Agreement with Central Inland Water Transport Corporation Limited on 23 Nov 22



Agreement with Indian Oil for supply of approx. 1000 KL of Lubricants over a period of three years on 29 Nov 22



MoU with 09 National & International Organisations at Aero India 23 on 15 Feb 23

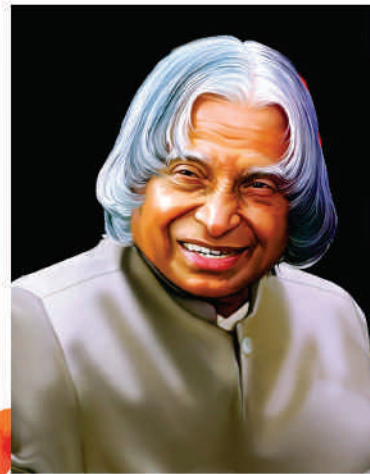


Signing of Contract with The Ministry Of Defence for Construction of 04 Next Generation Offshore Patrol Vessels on 30 Mar 23



*Dream  
is not what you see  
in sleep  
It is the thing which  
doesn't let you sleep*

*- Sir A.P.J. Abdul Kalam*





# Ship Repair Takes Off



Successful Docking of SMP Kolkata vessel MV Rabindra at GRSE -KPDD Unit on 06 May 22



Successful Docking of M/s ITT Barge MV ITT PL-1 at GRSE -KPDD Unit on 27 May 22



Successful Docking of Coast Guard AOPV Class ship ICGS Sujay for Refit at GRSE -KPDD Unit on 06 Jun 22



Successful Docking of SMP Kolkata Vessel PL Hooghly at GRSE -KPDD Unit for Underwater Work on 29 Aug 22



Successful Docking of ICGS Ayush at GRSE-KPDD Unit for Underwater Work on 10 Sep 22

Successful Docking of ITT Vessel Puma at GRSE-KPDD Unit for Dry Dock Repair on 17 Oct 22







Successful Docking of KMEW Vessel River Pearl-4 at GRSE-KPDD Unit for Dry Dock Repair on 21 Oct 22



Successful Docking of ICGS Priyadarshini at GRSE-KPDD Unit for an Underwater Package of SR-1 on 23 Dec 22



Docking of SMP Kolkata Vessel Ma Ganga at GRSE-KPDD 1 for Special Dry Dock Survey Repair on 07 Feb 23



GRSE KPDD Unit set record by simultaneously repairing ICGS Vijaya, ITT Tiger & PV Ma Ganga at all three docks on 24 Mar 23



Undocking Of Merchant Vessel ITT Tiger from GRSE-KPDD 3 on 28 Mar 23



Undocking of ICGS Vijaya From GRSE-KPDD 2 post completion Of Underwater Work on 29 Mar 23



## *AKAM Week Celebration*



### **AKAM Celebrations – Phase I-IX**

#### **Phase I-V (Apr 21 - Mar 22)**

GRSE celebrated AKAM Phase I to Phase V from Apr 21 to Mar 22 through Webinars on various topics, Participation in Exhibitions at various locations etc. Webinars were based on topics like “GRSE’s success story of Indigenization”, “MSMEs Development with MSME-DI & Vendors”, “Smart Shipyard-Digital Fabrication-Precursor to Industry 4.0”, “Combined Energy Management & Electrical Safety with NPC”, “Supply Chain Management” etc. The shipyard also organized seven day public exhibitions at DEP Ranchi, Science City Kolkata and Indian Maritime University Kolkata as a part of the AKAM celebrations.

The objective was to showcase its decades of legacy in shipbuilding, current and futuristic products. Exhibitions at all three locations witnessed the participation from students of local schools and the general public at large to have a first hand glimpse of GRSE’s shipbuilding operations, indigenous capabilities, and various classes of ships delivered to Indian Navy, Indian Coast Guard and Friendly Foreign Countries.

### **‘AKAM Mega Show’ Exhibition-“Nation Building & CPSEs” (06 - 12 Jun 22)**

Participating in Gol’s flagship ‘AKAM MEGA SHOW’ Exhibition-“Nation Building & CPSEs” at Gandhinagar, Gujarat from 06 - 12 Jun 22, GRSE provided a first-hand glimpse of GRSE’s shipbuilding operations, indigenous capabilities, and various classes of ships delivered to Indian Navy, Indian Coast Guard and friendly foreign countries along with GRSE’s contributions to the nation’s self-reliance capabilities in shipbuilding and allied areas and shipyard’s engagement with the people of the country.



**'AKAM MEGA SHOW' Exhibition-"Nation Building & CPSEs" at Gandhinagar, Gujarat from 06 - 12 Jun 2022**



**100 tree sapling plantation drive by GRSE on 10 & 11 Jun 22**



GRSE commemorated Azadi Ka Amrit Mahosav (AKAM) celebration with 100 tree sapling plantation drive on 10 & 11 Jun 22 across all units.



# AKAM Week Celebration

(Jun 22 - Mar 23)

## Phase – VI



The 6<sup>th</sup> Phase of AKAM Celebration in Jun 22 witnessed five focused Webinars that included “Spot Registration of MSME Women Entrepreneur & IDM Registration” on 17 Jun 22, “Global Supply Chain during International Crisis” and “Advancement in Portable Steel Bridges” on 20 Jun 22, “MSME Vendor Support” on 21 Jun 22 and “Green Energy for Inland Water Transportation in India” on 22 Jun 22.

## Phase – VII



The 7<sup>th</sup> Phase of week long celebration witnessed five focused webinars including “Advanced Modular Steel Bridges” and “IDM Portal & Special Vendor Development Programme for MSME SC-ST” on 09 Sep 22, “IDM Portal & Special Vendor Development Program for MSME Women Entrepreneur in association with NSSHONSIC & MSME\_ DI” on 13 Sep 22, “Advances in Autonomous Surface Vessel Technology (Opportunities for the Future)” on 14 Sep 22 and “Indigenization and IPR” on 15 Sep 22.



## Phase – VIII



The 8<sup>th</sup> Phase of AKAM Celebration included Webinars on “Vendor Development & Management System” on 02 Dec 22, “GRSE’s Indigenisation Success Story and Future Scope” on 05 Dec 22, “Vendor Rating System in GRSE & MSME Vendor Development in association with MSME-DI” on 06 Dec 22, “Supply Chain Management with Emphasis on Shipbuilding Industry” & “IDM Portal & Special Vendor Development Program for MSME SC/ST Vendor in association with National SC/ST Hub” on 07 Dec 22, “Special Vendor Development Program for Women Entrepreneurs and Vendors” on 08 Dec 22.

## Phase – IX



The 9<sup>th</sup> Phase of AKAM Week celebration also witnessed Webinars on “Fuel Cells – Application to Marine Vessels” & “Health & Wellness Camp at Mathurapur, Sundarban, 24 PGS(S)” on 24 Feb 23, “AI enabled Non-Destructive Testing” on 27 Feb 23, “Vendor Development with special view on Service Field/Vendor & IDM Portal with MSME-DFO, Kolkata” and “VDP & Spot Registration facility for MSME SC/ST & Women Entrepreneurs with NSIC-NSSHO” on 28 Feb 23, “Supply Chain for Micro & Small Enterprises at GRSE” & “Special VDP for Service Vendor & Women Entrepreneur with MSME-DFO, Kolkata” on 01 Mar 23, “GRSE Payment System for MSME Vendors in Association with SIDBI” & “Special VDP for Service Vendor & SC/ST Entrepreneurs with NSIC-NSSHO” on 02 Mar 23.



# Happenings



Inauguration of Online Vigilance Clearance Module on 02 Apr 2022



Inauguration of 480 KVAR APFC Panel at Building Berth Sub-station on 11 Apr 2022



Inauguration of GRSE New Data Centre by Cmde PR Hari, IN (Retd), CMD, GRSE at Main Unit on 04 Jul 22



Launch of AI Enabled NDT, Intelligent Weld Inspector (IWI) by Shri Rajnath Singh, Hon'ble Raksha Mantri on 11 Jul 22



Har Ghar Tiranga Celebration at Sister Nivedita University on 08 Aug 22



Inauguration of RO Plant by Cdr. Shantanu Bose, IN (Retd.), Director (Shipbuilding) at GRSE Main Works on 12 Aug 22





Installation of Water Sprinkle System in DA Supply Room of PP Shop, Main Unit on 16 Aug 22



Inauguration of Oil Shed and Flanging Machine at Fitting Out Unit on 23 Aug 22



Green Channel Certification by Ministry of Defence, Govt for supply of Portable Steel Bridges (Bailey Type) to Indian Army on 30 Aug 22



Joint Mock Drill on Rescue Operation, with NDRF, CISF, GRSE Security, Fire Dept, Medical Deptt & Reps From Garden Reach Police Stn on 07 Sep 22



Employees' participation in various Hindi competitions during Hindi Month Celebration from 18 to 22 Oct 22



Hon'ble RRM Shri Ajay Bhatt launching the first of its kind, 100% Indigenous Double Lane Modular Steel Bridge built by GRSE under a Patented Design at the GRSE Pavilion during DefExpo 22 on 19 Oct 22



## Happenings



Stakeholder's connect programme  
'Melbandhan 2022' on 31 Oct 22



Inauguration of Technical Training Centre  
at Taratala Unit on 08 Nov 22



Inauguration of Refurbished Ship Construction  
Store-9 at Fitting Out Unit on 10 Nov 22



Inauguration of Renovated WOT Office at  
Fitting Out Unit on 10 Nov 22

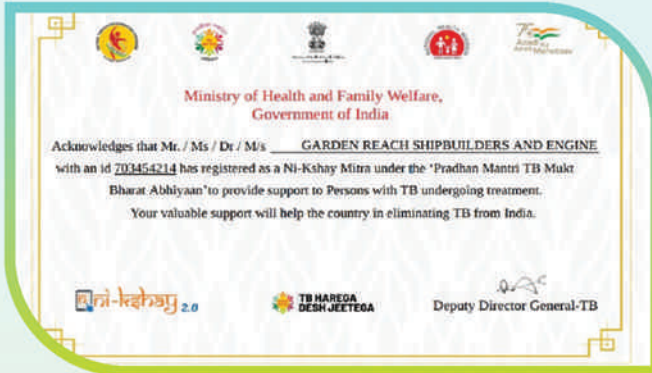


Inauguration of Solar Power Plant at Main  
Works Unit on 11 Nov 22



Inauguration of Transport Department at  
Main Works Unit on 10 Dec 22





Certificate of Appreciation from Central TB Division, MOHFW, Govt. of India for valuable contribution to the country's fight against Tuberculosis on 16 Dec 22



Installation of 45 Nos. of Industrial Electrical Extension Board on Yard 3022 on 14 Jan 23



Inauguration of Canteen ETP at Main Works on 19 Jan 23



Inauguration of Hazardous Waste Store at Main Works on 19 Jan 23



National Technical Symposium by Nagar Rajbhasha Karyanwavyan Samiti on 30 Jan 23



## *Occassions*



Ambedkar Jayanti Celebration on 14 Apr 22



Observance of National  
Anti-Terrorism Day on 21 May 22



Yoga Day Celebration on 21 Jun 22



Cyber Jagrookta Diwas Celebration at GRSE  
on 03 Aug 22



Independence Day Celebration on 15 Aug 22





Sadbhavana Diwas Pledge by Employees  
in GRSE Units on 18 Aug 22



Milad-un-Nabi Celebration at GRSE  
on 10 Oct 22



Vigilance Awareness Week Celebration  
on 31 Oct 22



Constitution Day Celebration at GRSE  
on 31 Oct 22



74<sup>th</sup> Republic Day Celebration at GRSE  
on 26 Jan 23



# Swachh Bharat Abhiyan



Swachh Bharat Abhiyan at Different Locations of Kolkata on 11 Aug 22



Swachh Bharat Abhiyan at Different Locations of Kolkata on 12 Aug 22



Swachh Bharat Abhiyan at Victoria Memorial as a part of Har Ghar Tiranga Campaign on 13 Aug 22



Cleanliness Drive at GRSE on 10 Oct 22



Cleanliness Drive at GRSE Main Works Unit on 14 Oct 22





Cleanliness Drive at ITI Gariahat Kolkata on 18 Oct 22



Cleanliness Drive at Fitting Out Unit as a part of Special Campaign 2.0 on 24 Oct 22



Swachh Vidyalaya Abhiyaan in local Government School on 02 Dec 22



Cleanliness Drive by Children of GAP Unit, Naara School on 06 Dec 22



Concluding Ceremony of Swachhta Pakhwada 2022 on 15 Dec 22



# CSR Initiatives



MoU with Jadavpur University on Industry Academy Collaboration at Bengal Global Business Summit on 20 Apr 22



Health Check-up Camp at Naora, 24 Parganas (S) on 28 Jun 22



MOU with Indian Institute of Cerebral Palsy (IICP) for 2022-23 on 13 Jul 22



Health Check-up Camp at Naora, 24 Parganas (S) on 19 Jul 22



MoU with Ramkrishna Math, Belur on Skill Development Programs on 21 Jul 22



MoU with Ramkrishna Sarada Mission to provide Medical Equipments for Charitable Dispensary 'SEVANGAN' on 28 Jul 22





Phlebotomy Technician & General Duty Training Batches at Ma Sarada Swanirvar Kendra, Ramkrishna Math, Kolkata on 21 Aug 22



MoU with The Leprosy Mission Trust India to provide Medical Equipments to Premananda Memorial Hospital in Kolkata on 23 Aug 22



Health Awareness Session for Women Employees on 27 Sep 22



High tech Medical Equipment to Ramakrishna Sarada Mission for its charitable Dispensary 'Sevangan' on 19 Oct 22



CSR Initiative with IICP on 28 Oct 22



Inauguration of Medical Equipment by GRSE at Premananda Memorial Hospital on 07 Nov 22



# CSR Initiatives



Health Check-up Camp at Moipith Gram, Baikunthapur, South 24 Parganas on 15 Nov 22



Health Check-up Camp at GRSE RBD Unit for the local people of Metiabruz and Rajabagan on 17 Nov 22



Nutritional Support to TB Patients at NI-KSHAY 2.0 Programme under Pradhan Mantri TB Mukta Bharat Abhiyan on 16 Dec 22



MOU with Ramakrishna Mission, Belur Math for Holistic Development of Underprivileged Tribal Children in Ranchi on 27 Dec 22



GRSE Annual Health Check-Up 2023 on 19 Jan 23

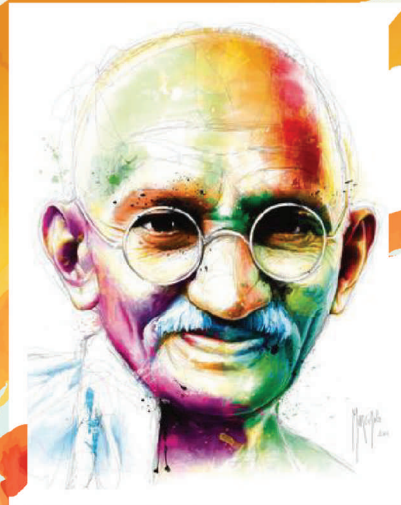


Blood Donation Camp on 17 Feb 23



*The simplest acts of kindness are by far more powerful than a thousand heads bowing in prayer.*

*-Mahatma Gandhi*





# *Glimpses of Ahoban-2023*









# Glimpses of Ahoban-2023









# Employee Engagement



Ahoban 2022 on 03 Apr 22

GRSE Day 2022 on 19 Apr 22





CMD Letter of Appreciation, 2021- Award Ceremony on 17 May 22



Seminar & Yoga Session for Employees on 30 May 22



CMD GRSE, Cmde PR Hari's maiden address to all the Officers on 13 Jun 22



Outbound Team Building Workshop for Officers of Project P17A Team on 01 & 02 Sep 22



Felicitations of Rajbhasha Team by CMD, GRSE on 28 Sep 22



Chess Tournament for Employees as part of Annual Sports 2022-23 on 06 Jan 23





Carrom Tournament for Employees as part of Annual Sports 2022-23 on 10 Jan 23



Cricket Tournament for Employees as part of Annual Sports 2022-23 on 12 Jan 23



Competitions Organized for Employees as part of AHOBAN 2022-23 on 18 & 19 Jan 23



Annual Sports 2022-23 Table Tennis Tournament on 27 Jan 23



Women's Carrom Tournament on 28 Jan 23



Employees' participation in the GRSE Family Day 'AHOBAN 23' on 29 Jan 23



## Start of a New Innings



**Cmde PR Hari, IN (Retd.) takes over as Chairman & Managing Director of GRSE on 10 Jun 22**

Cmde PR Hari, IN (Retd) has assumed the charge of Chairman & Managing Director of GRSE with effect from 10 Jun 22. He is a Mechanical Engineer with Bachelor's Degree from Naval College of Engineering, Lonavala and has done his Master's Degree in Defence & Strategic Studies as part of 59th DSSC Course at Wellington. The Commodore has undergone Army Defence Orientation Course at AWC Mhow and the prestigious Naval Higher Command Course at the College of Naval Warfare in the year 2011.

He has had an illustrious Naval career spanning over 32 years during which he has held various prestigious appointments in key positions in Strategy and Operations, Technical Administration and Tactical decision making. His professional graph includes nine afloat appointments including seven frontline warships of the Navy. He has also held staff appointments at Eastern Naval Command and as Command Engineer Officer for Southern Naval Command. A notable contribution of the Chairman & Managing Director was as the Commissioning Engineer Officer of India's first indigenously built Stealth Frigate, INS Shivalik. He also has a unique record of serving in afloat appointments for a continuous span of eleven years and six months.

Cmde PR Hari, IN (Retd) was selected in GRSE as Chief General Manager (PP&C) in 2016 and has been in charge of production planning of almost all new construction ships at that point of time. He assumed charge as Director (Personnel) of the Company w.e.f 21 Oct 2019 and headed the Human Resources and Technical functions of GRSE.

In pursuance of the company's Vision, the Chairman & Managing Director strives to make GRSE globally recognised as the best Indian Shipyard. He envisions to further strengthen the Government's "Make in India" initiative, create a unique identity for the Company amongst its peers by becoming self-reliant in design capability and by deploying state of the art manufacturing

processes. Towards the same, the initial thrust has been on improving productivity, enhancing internal efficiencies, devising new policies, vendor base development, human resource development and most importantly a sense of discipline amongst employees of the shipyard.



**Cdr Shantanu Bose, IN (Retd.) takes over as Director (Shipbuilding) of GRSE on 08 Jun 22**

Cdr. Shantanu Bose, IN (Retd.), after serving in the Indian Navy for 23 years, joined Garden Reach Shipbuilders & Engineers Limited (GRSE) in 2013. He has assumed charge as Director (Shipbuilding) of the Company w.e.f. on 08 June 2022. Cdr. Bose is a highly qualified and experienced naval architect who has been in charge of several projects undertaken by GRSE since 2013. Before assuming charge as Director (Shipbuilding), he was working as General Manager (MW & P17A).

He completed his B. Tech in Naval Architecture & Shipbuilding from Cochin University of Science and Technology, and Diploma from IIT, Delhi. He also holds Post Graduate Diploma in Management from Jamnalal Bajaj Institute of Management Studies, University of Mumbai. Further, he holds membership of the Institution of Engineering (India) and Institution of Naval Architecture.

Cdr. Shantanu Bose, IN (Retd.) has deep technical insight and hands on working experience in all aspects of Ship Building, managing men, and motivating them to take on new challenges has been his forte. In GRSE, he has been the forefront of adoption of the Integrated Construction (IC) methodology, usage of the Virtual Reality Laboratory (VRL) for design and the Product Data Model (PDM) & Product Life Cycle Management (PLM). His current focus areas include R&D Projects and greater thrust towards Indigenization. The infrastructure upgradation planning, execution and exploitation of the RBD Unit of GRSE has been done under his oversight. It is now being exploited gainfully for the construction of ongoing projects.



## *Rejuvenation*

### **TREKKING AT SANDAKPHU – DECEMBER 2022**

The trekking route for the year of 2022-23 in the month of December 2022 was Sandakphu, which is situated at a height of 3636 Mtrs. (11926 ft.) from mean sea level, located at Darjeeling District of West Bengal. The trekking was started from Dhotrey approximately 20 km away from Manebhanjan, on 24 Dec 22 and concluded on 31 Dec 22 at Sippy village near Srikhola.

Throughout the trekking journey, the weather was sunny, providing a panoramic view of Mount Kanchanjungha and other mountains. These mountains appeared like sleeping Lord Buddha / Shiva. Additionally, we had glimpses of various Himalayan Peaks such as Mt. Janu / Kumbhkarna, Mt. Kabru, Mt. Kabru Dome, Mt. Goecha, Mt. Pandim, Mt. Three Sisters, Mt. Lotse, Mt. Makalu, And of course, the highest peak in the world Mt. Everest. The night sky adorned with stars and the galaxy added to the enchanting experience.





The trekking was successfully completed with wonderful memories, joy and happiness. All members were physically and mentally fit . Our Route included Dhotrey, Tumbling, Kalapokhri, Sandakphu, Thakum, Moley, Samanden, Rammam, and Sippy.

A total of 51 participants, ranging in age from 06 to 70 years, to part with a total count of 70 including guides, cooks and porters. The members covered approximately 86 to 90 km. during this 7 day trek.





# GRSE Got Talent

## गीता एक बयान करता हूँ

गाथा नहीं कोई, गीता एक बयान करता हूँ,  
गर्व होता जब, गरिमा जी आर एस ई की गाता हूँ।

समंदर प्यारा है हमें, मौजों से दिल से रूबरू,  
लहरों को करते काबू हम और दुश्मनों को बेआबरू,  
कार्यक्षेत्र मेरा धर्मक्षेत्र है, आयुध मेरी है युद्ध जहाज,  
छाती छप्पन हो जाती जब ललकारती देकर आवाज़।

गाथा नहीं कोई, गीता एक बयान करता हूँ,  
गर्व होता है, गिलहरी बन श्रमदान जब भी करता हूँ।

एफएसी एफपीवी और एलसीयू एलएसटीएल,  
एएसडब्ल्यूसी अल्फा का नहीं कोई मेल,  
अनमोल मौतियों के जीआरएसई है महासागर,  
अजय से लेकर आज तक स्वर्णिम रहा यह सफर।

गाथा नहीं कोई, गीता एक बयान करता हूँ,  
गर्व होता है, इस किस्से का खुद को हिस्सा मानता हूँ।

उत्पादन वित्त सामग्री और परियोजना,  
सुरक्षा नीरापता प्रशासन फिर संरचना,  
हुनर से लेस हमारा यह प्यारा प्रतिष्ठान,  
आन बान जीआरएसई रही है हमारी शान।

गाथा नहीं कोई, गीता एक बयान करता हूँ,  
गर्व होता है, सपने को साकार होते यहाँ देखता हूँ।

बुलंद है हौसला यहाँ, कारीगरों का घोंसला यहाँ,  
जोश जुनून का भंडार, विश्वकर्मा का वरदान यहाँ।  
हम ने रिकॉर्ड तोड़ा, मारीशस को सौंपा बाराकुडा,  
छोटी प्रयास कदम बढ़ा, यही हमने किया सामने खड़ा।

गाथा नहीं कोई, गीता एक बयान करता हूँ।  
गर्व होता है, जहाज बनने में योगदान जब देता हूँ।

सार्वजनिक बनी जीआरएसई पब्लिक इश्यू में रखा  
कदम,  
नई स्थिति नया रुतबा, सार्थक सुंदर अब भविष्य जीवन।

गाथा नहीं कोई, गीता एक बयान करता हूँ।  
गर्व होता है, जब आशाओं को आकार लेते देखता हूँ।

जय जी आर एस ई

**Amiya Kumar Rout**  
M.A. No.-202569  
SM (MW)



## ज़िद

किसी रात की तरह फिर से आज  
चुपचाप चाँद पर जाने की ज़िद की  
ना जाने क्यों चाहा की सारे तारे जकड़ लाऊँ,  
आज बस एक आखिरी सांस लूँ और ये आसमा लांघ जाऊँ...!!!!

एक गरम हवा हर बार, हथेली इस कदर छूती रही  
नीचे सिमटा दिखा सब कुछ ..ज़मीं हर पहर हिलती रही  
बादल भी कई चेहरों से ढकने लगा मुझे कुछ यूँ देखकर,  
एक नया मुखौटा लग गया एक नयी दुनिया में जाने को...  
कोई पहचान ना पाए चेहरों से..हर चेहरा इतना बदल आऊँ...  
आज बस एक आखिरी सांस लूँ और ये आसमा लांघ जाऊँ...!!!!

बारिश कैसे होती है सब पूछते थे मुझसे घर पर ...  
आज उन बूंदों को उनके घर से निकलते हुये देखा था मैंने...  
रहता था जहाँ, वहाँ प्यास में हर तलाश भी बेपता थी...  
प्यासे घरों की कितनी छतें बारिश में ढहती देखी थी मैंने...  
इतनी रोशनी देख लगा कि चलो कुछ घर रोशन कर आऊँ...  
आज बस एक आखिरी सांस लूँ और ये आसमा लांघ जाऊँ...!!!!

कितने खुश है लोग...शायद खुशी जानते ही नहीं...  
वो (ज़मीं) तो आज भी अहसास जानकर खुश हुआ करती है...  
कोई कभी "मै" नहीं कहता....कोई यूँ "तुम" नहीं कहता....  
वहाँ तो हर दूरी कोई ना कोई रिश्ता बयां कर जाती है...  
कुछ पल और दे दो...मै सबको एक रिश्ते में बाँध आऊँ...  
आज बस एक आखिरी सांस लूँ और ये आसमा लांघ जाऊँ...!!!!

सोयी रात ने फिर आँख मली एक करवट लेकर  
सुबह के छीटें डाले हैं अभी अभी किसी ने मुझे उठाने को  
साँधी सी वो खुशबू चारो ओर घूमकर मेरे पास रुक गयी....  
कोई मुझे देखकर ही निकला था चाय का भिगौना लाने को...  
सोचा इस नींद से इस तरह मै कैसे अभी जाग जाऊँ...  
आज बस एक आखिरी सांस लूँ और ये आसमा लांघ जाऊँ...!!!!

**Ajay Gautam**  
M.A.No.-603262  
SM (CC)  
CP & CC Dept.





### Photography Basics and Myth Busters :

I often advise my friends against buying a DSLR when they seek my suggestions. Instead, I recommend getting a mobile phone with a good camera. However, they often get offended and still end up purchasing a DSLR from xyz brand. After 6 months or a year they come back to me, realizing that the quality of their photos has not improved much with a DSLR, and they conclude that mobile phones are handier and more useful.

#### Know your purpose :

Why discourage spending Rs 50K to 1 Lakh on a DSLR? A DSLR can only make a difference in a photograph when it is used to its true potential. If someone keeps using it in Auto mode, the result will be no better than a phone's camera. So, if your primary objective is to capture memories of social gatherings, festivals, tours and share them on social media photos taken with a phone's good camera and basic processing will suffice the purpose. It's important to note that social media algorithms significantly downgrade picture quality. So, whether it's a 5 MB photo taken with a mobile or a 25 MB photo taken with a DSLR, both get compressed to 150 KB when uploaded in Facebook or Instagram.

#### So why DSLR :

If someone is ready to learn the grammar of photography and is prepared to use a DSLR in manual mode as well as learn the basics of post processing then only buying a DSLR will be worth every penny.

1. Learning the grammar is important because no matter how creative someone is, without following the basic rules of photography, the output will only be as good as a casual snapshot. Also, to break a rule first you need to know the rule.

2. In manual or semi-automatic mode we get the actual control over the parameters which determine the output of the camera. In auto mode, the algorithm of the camera decides how to set up these functions being completely unaware of how the photographer wants the picture to be.

3. Processing is required because to get the best output one needs to capture the photos in Raw format. Raw photos cannot be viewed / uploaded directly as it captures every data available with the camera sensor. These raw photos are required to be processed as per the vision of the photographer.

#### Basics of photography:

I'm not going into the details because everything is available in internet. I just want to mention the points that need to be looked into.

1. Composition - There are hundreds of laws of composition across different genres. Most important ones are the rule of third, centre composition, golden ratio, leading lines, frame within a frame, diagonals, repetitive pattern, minimalistic, juxtaposition etc.





2. Camera parameters - Three primary factors controlled the desired exposure.

- i. Aperture : Variable opening in the camera lens that allows light to pass through.
- ii. Shutter speed : Duration during which the camera's shutter stays open exposing the sensors to light.
- iii. ISO : Sensitivity of the camera sensor to light.

Controlling these factors determines the camera's output.

In addition to these factors, other important settings include autofocus mode, focus area, frame per second (fps), metering modes, exposure bias, picture control, image stabilization, active D lighting , noise reduction etc.

3. Processing - Besides basic adjustments like cropping, brightness, contrast, saturation, sharpness other aspects contribute to photo development. For example, White balance maintains the color temperature (warm/cool) of a photograph. Highlight must be checked for burnt part of a photograph and shadow for underexposed part. Dodge burn, healing, curve adjustment etc to be carried out as and when required.

Myths :

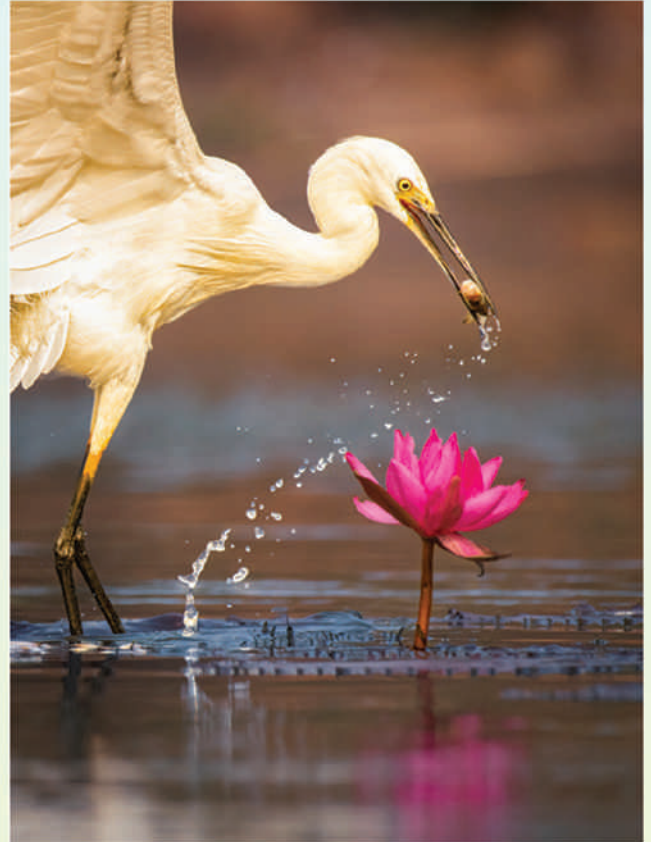
1. Megapixel rules : The number of megapixels does not determine the photo quality. Smartphones now boast high megapixel counts like 48 or 64 MP, but they can not be directly compared to photos taken with a dedicated camera. Even a professional Nikon D4 camera, which costs around 3.5 Lakh, has only 16 megapixels.

Megapixel (MP) is ten lac pixels. These pixels together make the sensor of a camera. Naturally the more the pixel value the better detailed the photo will be. But there is a catch , the individual pixel size is not the same for all gears. Hence a bigger sized pixel with less MP value can make a bigger sensor (ensuring better photo) than a smaller sized pixel with high MP value.  $64 \times 10$  lacs pixels in a mobile camera makes a sensor which is way smaller than the sensor of a camera with  $16 \times 10$  lacs pixels.

So what matters more than the pixel count is the size of the sensor. While comparing two cameras, more pixelated camera will render a better picture only when the sensor size is same.

2. Costly camera makes Smooth blurry background : No. Background quality depends on depth of field (DoF) which can be varied by changing camera settings. Less DoF means more blurry background. It depends on the factors mentioned below :

- i. Greater focal length = low DoF
- ii. Low aperture value ( greater lens opening ) = low DoF
- iii. Less "camera to subject distance" and more "subject to background distance" = low DoF





3. High zoom : Zoom of 8x, 10x given in a mobile phones camera or compact cameras are digital zoom, where the focal length remains same . It basically refers to stretching a photo. This zoom effect can also be achieved by cropping an image. On the other hand, optical zoom only comes by changing the focal length in a lens. Hence , digital zoom is not zooming in actual sense , rather it's cropping and stretching a photo. To get a good photo where subject is placed at a greater distance , we need to buy lens with longer focal length (500mm, 800mm).

The intention of the above stories is not to discourage the purchase of cameras but to encourage everyone to learn and explore photography. We all love to click and store memories in a hard disk. So why not do it in a more skilled way? Learning photography takes just a few days and with practice improvement will be visible. I will conclude with a famous quote by Ansel Adams "You don't take a photograph, you make it ". The journey of photography is all about the ascent from taking a snapshot to creating a photo.

Here are 03 photographs taken by me:

- i. Catch – A long tailed shrike captures a grasshopper. Photo taken in low Aperture value (f/3.5) to create a creamy background (shallow DoF)
- ii. The curve – An intermediate egret catching a fish in front of a flower. Photo taken with a high shutter speed (1/2500 sec) to freeze the moment.
- iii. Deer watching – A Bengal tiger stalking a mixed herd of deers. Photo taken with a high aperture value (f/11) to ensure the entire story is in focus (greater DoF).



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## Life Experiences at Shri Mata Vaishno Devi, Katra , J&K

A pilgrimage to the Holy Shrine of Shri Mata Vaishno Devi Ji is considered to be one of the holiest pilgrimages of our times. Known world wide as the mother who fulfills all desires (Mooch maangi muradein poori karne wali mata), Shri Mata Vaishno Devi Ji resides in a Sacret Cave nestled in the trikuta mountain range. The Holy Cave attracts millions of devotees each year, withover 1 crore yatris visiting annually from India and Abroad.

The Holy Cave of the Mother is situated at an altitude of 5200 ft. The Yatris have to undertake a trek of nearly 12 km from the base camp at Katra. At the culmination of their pilgrimage, the yatris are blessed with the Darshans of the Mother Goddess inside the Sanctum Sanctorum- the Holy Cave. These Darshans take the form of three natural rock formations called the Pindies. There are no statues or idols inside the Cave and darshans are available round the clock throughout the year.

Since the formation of the Shri Mata Vaishno Devi Shrine Board (commonly called Shrine Board) in 1986 , the management of the Shrine and regulation of the Yatra have been entrusted in the Board. The Board has undertaken a number of developmental activities aimed at making the Yatra a comfortable and satisfying experience for the Yatris. The Board continues to reinvest the offerings and donations received to carry out improvements in various Yatri facilities.

### कविता माँ वैष्णों देवी

मेरी माँ तों चंगा कोई नही  
मेरी माँ तों चंगा कोई नही शोरावाली तो चंगा कोई नही  
जेडी रखदी सबदा ख्याल जेडी करदी मालामाल  
जिथे पैदे गिदे कमाल

मेरी माँ तों चंगा कोई नही शोरावाली तो चंगा कोई नही  
मेरी माँ तों चंगा कोई नही मेहरावाली तो चंगा कोई नही  
मेरी माँ तों चंगा कोई नही....

जेडी डूबदे देंदी तार बेडी करदी सबदी पार  
करदी भवसागरो पार करे करदी बच्चेया नु प्यार  
मेरी माँ तों चंगा कोई नही मेरी माँ तों चंगा कोई नही  
मेरी माँ तों चंगा कोई नही....

जेडी सबदे दिला दी जाने जेडी खोटे खरे पहचाने  
जिदी माया कोई ना जाने जिथे तरदे तेरे दीवाने  
मेरी माँ तों चंगा कोई नही मेरी माँ तों चंगा कोई नही  
मेरी माँ तों चंगा कोई नही....

जिदा हृदय बड़ा विशाल जिदी जग विच नहीओ मिसाल  
जेडी दुष्टा दे लई काल जिदे झण्डे झूलन लाल  
मेरी माँ तों चंगा कोई नही मेरी माँ तों चंगा कोई नही  
मेरी माँ तों चंगा कोई नही....

जो है अष्ट भुजावा वाली जो सारे जग दी वाली  
तेरे दर ते कोई सवाली चंचल ना मुड़ेया खाली  
मेरी माँ तों चंगा कोई नही मेरी माँ तों चंगा कोई नही  
मेरी माँ तों चंगा कोई नही...

JM (D) & (E), Central Design Office - 61 Park Unit

**Manish Kumar**  
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## SWACHHATA – A ROAD TO PROSPERITY (स्वच्छता – समृद्धि की सड़क)

It is truly said that 'Cleanliness is Godliness'. Where there is God, there is no dearth of anything, no misery, no darkness or worries. The spirit of Swachhata is closely linked to growth of our society. Swachhata acts as a catalyst, accelerating progress and enabling us to achieve highest range of growth in our society. Cleanliness goes beyond bodily health and hygiene. It has a large spectrum like social cleanliness, mental cleanliness, spiritual cleanliness, physical cleanliness, environmental cleanliness etc. Quality of total sum of these cleanliness act as an indicator of growth of any family, society, state or country. Journey of growth starts and proceeds further only on the road of total cleanliness. Every aspect of swachhata i.e Physical cleanliness, Social cleanliness & Spiritual cleanliness, has its own contribution in building nation's capability and growth. Physical cleanliness is to keep our body parts clean and hygienic; Social cleanliness is to keep our society and environment neat & clean; and Spiritual cleanliness is to keep our soul, thought and intention pure, clean and healthy.

The major benefits of cleanliness or swachhata, include boosting the tourism industry, improving health, upgrading technology, enhancing productivity, attracting foreign direct investment(FDI), reducing the cost of living, preventing and curing the communicable diseases and eliminating infectious diseases.

These all factors lead our society to the path of success and growth. Environmental cleanliness and physical (bodily) cleanliness is interrelated to each other. And the sum of these two, actually propound mental, spiritual, psychological and social cleanliness. Above all, environmental cleanliness is supreme. Main components of environment are air, water, soil, plants, organism, industries etc and their quality has a direct impact on our health & hygiene.

The concept of cleanliness and hygiene i.e swachhata is not new to the world and India. It has got its reference in many ancient and Vedic texts. The concept of cleanliness is directly related to the health of our environment and an individual. We can find specific mention about hygiene and cleanliness in ancient text like Manu smriti, Ganesh purana, Patanjali yoga sutra, Rigveda, Atharveda, Daksha Smriti etc.

According to Charak Sanhita,

“सत्त्वात्मा शरीरम च त्रय मेतन्ति त्रदंडत ।  
लोकस्तिष्ठती सन्योगात्तत्र सर्वम प्रतिष्ठितम् ।।  
स पुमांश्चेतन तच्च तच्चा धिकरणं स्मृतम् ।  
वेदस्यास्य तदर्धं हि वेदोअयं संप्रकाषितम् ।।”

(It means that Healthy Mind, Healthy Soul and Healthy Body are the Tripod of Happy & Prosperous Life. The world is sustained by their combination.)

Swachhata has direct impact on our life and the other components of environment which has surrounded us. It steers our mind, soul and body in two way either in positive direction or negative direction as per quality inertia of Swachhata. If our life is stable, healthy and happy; we can push our family, our society on the path of happiness, prosperity and progress.

Taking care of our environment cannot be ignored at all. Excessive exploitation of our natural resources is not bearable. How cleanliness is of paramount importance, it is clearly described in undermentioned lines of Manu Smriti: -

“नाप्सुमूत्रम पुरीशम वष्टीवनम वा सम उत्सर्जेत् ।  
अमेध्यमलिप्तमन्यद्वा लोहतम वा विषाणी वा ॥”

(It means to say that we should not discharge human waste and other pollutants to river. It causes water poisonous and effects our environment badly. Hence health system of human and another organism is damaged). Life can only progress with a healthy body, a healthy mind & a healthy soul. The role of cleanliness and hygiene is of utmost importance in maintaining the health and happiness of our body, mind and soul. A healthy body leads to a prosperous and progressive life. The sustainability of the universe depends on the cleanliness, health and well being of our environment and our bodies.

“तुझे बेहतर बनाने की कोशिश मे,  
तुझे ही वक्रत नहीं दे पा रहे है हम,  
माफ करना ऐ जिंदगी,  
तुझे ही जी नहीं पा रहे है हम ।”

Our government has also initiated many programmes to inculcate habit of cleanliness in our society and their effects. Let us keep ourselves, our environment & surroundings neat and clean to build up a treasury of happiness & prosperity.



## मेरी मंजिल

भटक गया मैं राही  
मंजिल का था मैं सिपाही  
रास्तो ने दिया मुझे चकमा  
मंजिल पाने का टूटा मेरा सपना ।

छोड़ दिया साथ मेरा उन्होने,  
मेरी बेबसी को नहीं पूछा किसी ने ।  
अब हो गया था मैं अकेला  
संग में था निराशा का मेला ।

दिखी थी मंजिल मेरी कई बार  
लेकिन बदकिस्मती मेरी  
पहुँच न सका मैं एक बार ।

अचानक खुद ने खुद से पूछा  
कौन और कहा है तुम्हारी प्रतीक्षा  
प्रतीक्षा करते करते , क्यों छोड़ दी प्रतीक्षा  
प्रतीक्षा मेरी जीवन है  
प्रतीक्षा मेरी आशाएँ है  
पा लूँगा अपनी मंजिल मैं एक दिन  
चाहे करनी पड़े प्रतीक्षा रात दिन ।

बिजली चमकी भागा नहीं  
बादल कड़का डरा नहीं  
फिर बारिश का आया समंदर  
डुबो दिया मेरे मंजिल का बंदर ।

मंजिल को तो सजाया था मैंने  
मंजिल को तो बनाया था मैंने  
कई रंग जड़े थे मैंने,  
कई जंग लड़े थे मैंने ।  
उफ , ये बदकिस्मती मेरी  
किसी खुदा ने किया उसे हासिल  
तलाशता रहा मैं , किनारों में साहिल ।



**Raju Kumar Tiwari**  
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## दूनागिरी- प्रशस्ति

‘द्रोणागिरी’ समान तुम,  
पहाड़ सम बलवान तुम ।  
रणतुंग, अजेय, दिग्विजयी,  
नौसेना की नई शान तुम ।

पुनर्जीवन तुमने लिया,  
इस बंग-भूमि की आँचल में ।  
थे कल भी, रहोगे कल भी  
जल की कल कल में, सेवा में ।

जीआरएसएई, गोदी में पाते,  
लगन, परिश्रम, प्रेम सहित ।  
सुदृढ़, सशक्त, रियु दमन हेतु तुम,  
निश्चय ही होगा दुश्मन वचलित ।

है पावन, चौबीस जनवरी बीस दिवस जब  
हुआ तुम्हारा कील स्थापन ।  
उत्कृष्ट दिवस है पंद्रह जुलाई बाइस  
जब हुआ तुम्हारा जलावतरण ।

स्वावलम्ब पर नींव टिकी है  
आत्मनिर्भरता के सहभागी ।  
हल, इंजीनियरिंग व विद्युत क्षेत्र की,  
निर्माण पद्धति भी बड़भागी ।

डीएमआर तुम्हारा आवरण,  
कोडांग प्रदत्त हो, तुम चपल ।  
ब्रह्मोस, एसआरजीएम व एलआरसेम, कलित  
धारण किये तुम विप्लव - बल ।

विजयी पग हों, सदा तुम्हारे,  
इस जल अनंत की यात्रा में ।  
वरुण देव से यही प्रार्थना,  
हम सबके भावासिक्त मन में ।

हो गौरवान जो तव – आश्रित,  
है, यही शुभेक्षा इस निर्माता की ।  
‘शत’ प्रप्ति करो शिघ्रतिशीघ्र,  
जय हो, भारत माता की ।

जय हिंद !



**Vinay Kumar Dubey**  
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JM (Technical)  
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# *Our Families Make Us Proud*

## **ETHICS AND VALUES**

The word ethics is derived from the ancient Greek word 'Ethos' which means habit, custom or character. That is morality in the real sense. The habits and character of a person talk about the moral values he/she holds. In other words, a person's moral values define his character. We are all told what is good and what is bad based on moral norms set by society.

Values are of extreme importance to a person. This is because they determine their behaviour, temperament and overall approach towards life and other people. The decisions we make in our lives are largely based on our values. A value or ethics is, "an enduring belief or trust that a specific mode of conduct and dealing or end-state of its existence is personally or socially likable to an opposite or converse mode of dealing or end-state of existence".

Further, we see, a value system is all these beliefs placed and used to precedence, serving as a guide for everything from choice-making to dispute resolution. Skilful values are the same as explained above but in the reference of a company, any organization, or group and what they would want their expected end-state to be.

The important sources of ethics and values are:-

- Family - First and important source of professional values and ethics are parents or guardians. Grandparents and Parents teach their kids right from wrong, not to tell lies or steal, and may explain them references or stories related to particular religion where values are reinforced.

- School - After home or parents, another source of values and ethics in the school. Children learn to be in time for school, complete their homework, and study hard to earn good grades. Just as with chores and allowances at residence, schoolwork teaches that by studying and working hard, one can get a success good category and get into good schools and colleges. They also get to interact with various other children from differing backgrounds. All these mould their character.

Each of us know the importance of ethics and values. Every individual should have manners and ethical principles to live a fulfilled life. If one wants to make a friend, it must be with another who imbibes moral values and practices hard work and honesty in his pursuits. When faced with troubles we should stand up and face them boldly. If someone requires help, we should try to help them to the extent possible.

It can be seen that values and ethics a person follows in his life are bare extensions of the values and ethics which he or she has learned from the family, elders, spiritual leaders or teachers. This is a mirror on our society. Whatever ethics and values that are imbibed by students in our schools and colleges will carry over to their professional world also. People with high levels of ethics and morals are respected by the society and the company that employs them. Successes of many businessmen like Mr Ratan Tata show us that value based business decisions and ethical guidelines are the benchmarks for success. Those who are ready to compromise on their ethics and values may find short term success but will always be looked down by all.

The Final Thought

If we want to evaluate a community that has a no or very less corruption rate and has high levels of happiness and content, we all have to look into the social values and the ethics that they practice. We should take ownership of making our society worth living and turn our planet into a beautiful world where all persons can live their life with respect and dignity without any fears in their mind. Once we all start following the rules of ethics and values, the world will be a great place to live.

**Mast Vasudev Aravind**  
S/o Shri Aravind Shankar  
M.A.No – 602119  
AGM (Hull) – FOJ Unit





**Dreams do come true -A note to Celebrate the womanhood-  
By Swetha Pranab – Mrs. Kerala finalist & Subtitle winner**

It was yet another day after work and household chores. I was looking into the moon light: I was reminded of old dreams of making my parents proud. Life was static and silent since the last few years and the vigor was missing. So, a thought came up whether I should have lit it up again. I always believed in the quote "And, when you want something, all the universe conspires in helping you to achieve it." - Paulo Coelho, *The Alchemist*.

I woke up the next day and came to know about the Mrs Kerala event in Kochi. I was in two minds whether to attend it. When I informed this to my parents and husband, they gave me the go-ahead, I was able to win their confidence. In fact, they are my biggest support base.

The concept of "Mrs. Kerala" is to celebrate the womanhood after marriage for sure. Yes, this beauty pageant is envisaged for married women of Kerala or Kerala origin irrespective of their professions and they all will be evaluated through a series of rounds based on their "Simplicity, Beauty, Articulation, Grace, Pleasantness, Likability, Cheerfulness, Elegance and Fineness".



I was based out in Bahrain with my parents and was shuttling down to India in between and had joined a new company after few years of break. I have a five year old son, who means the world to me and he is the most precious gift of God. He is too young to understand it, but I knew I had his support seeing him smiling. I submitted the application form for the event. After online audition and interview, I got selected to the next round. I got to understand that I need to level up my skills and presentation and then I started to keep track of my fitness and health. A few weeks later, on my mother's birthday I got selected to be in the 42 finalist of Mrs. Kerala event out of numerous contestant. I was thrilled about my achievement. I was on cloud nine.

Finally, the 3 days' event started and all final 42 contestants was met in person, it was good to know that many had been previously experience with such events and there were many other beauty pageant winners as well. But the grooming sessions and mentoring

done by renowned media and choreographer gave all of us confidence and we by ourself united as a new family who all believed in womanhood and became each other support systems to face the large crowd and judges. At the end of the day it was a fight for the best, there were various elimination round and grueling task to be done but it was to the surprise and immense happiness that I could cherish to be few of the final sub title winner to the Mrs. Kerala.

Finally, it was a momentous and it made me realize dreams don't come to an end after marriage.

"In fact, it is another stage in life which help us achieve goals with our family". To all women out who I want to say that never hold back to follow your dream at any age or walk of life and the only thing you need to wear well is your confidence. "Never let life impede on your ability to manifest your dreams. Dig deeper into your dreams and deeper into yourself and believe that anything is possible, and make it happen"



**Shweta Pranab**  
Wife of Pranab P Nair  
M.A. No. 602959  
Manager -Central Design Office/PMT Green Ferry  
61 Park Unit





## PERFECT

There are speckles on the whitest clouds  
And blotches on the pigeon, so white.  
There are flecks on the platinum moon,  
There's dullness below the light.

There is no new morning without the gloom;  
There's no inception without an end.  
Accept the flop as you embrace the boom.  
Greet the fiasco like your old friend.

We can't have the glee of victory  
Until we have the agony of failure.  
We can't have the bliss of smiling  
Until we have the stains of tear.

There's no free run without a fall  
No matter how far you go.  
There's no free gain without a loss  
Things are never perfect you know!

Ups and downs; highs and lows  
Goods and bads; friends and foes  
Altogether, peace and strife  
Side by side build our life.

There's no rainbow, without a squall  
No fresh blooms without the frosty snow;  
There's no win without a crash;  
Well, things are never perfect you know!



**Abhishikta Biswas**  
Daughter of Abhijit Biswas  
MA No. 411420  
Supervisor (S4) (PP&C)

## A CLEAN MIND

We all understand our duty to keep our Mother Nature clean for a healthy and sustainable environment. We often end up defining cleanliness as an act of purifying our surroundings. But what pollute our lives even more is our mental dirt. As it's widely known it can take various forms such as overthinking, feeling insecure, inferiority complex, anxiety, depression, etc. But sadly, we don't address them the way we handle our environment.

Studies prove that we often try to overthink and change things that are not in our control. We often put our entire focus on our unachieved goals so much that we forget to celebrate our little winnings. We often let past memories haunt us. We let strangers define us. We take opinions of strangers to be final judgements and we let ourselves doubt our abilities. We get so engrossed in winning the race of life, we end up comparing ourselves to others; when deep down we all know everybody's goals and paths are different. So the very point of this article is these thoughts deserve attention and should be handled carefully and gently. If we keep negativities inside our mind, they will tend to overflow someday. So we should pick them one by one, deal with them gently and gradually they'll be out of our mind. We all speak so politely with others. But when it comes to our own self, we get so harsh. But sometimes, the trick is to just go easy on yourself --- to take a break from everything and remind ourselves that we are loved and worthy and we are all winners in our own lives. Where there's too much dirt on the road, it gets polluted. Similarly, too much thoughts can pollute our lives. So it's important to tackle those thoughts every now and then.

So...as Louise Hay says, we should do a mental housecleaning and make room for new, positive thoughts.



**Shaswati Biswas**  
Wife of Abhijit Biswas  
MA No. 411420  
Supervisor (S4) (PP&C)



## *Awards Et Accolades...*



Rajbhasha Shield Award for "Excellence in implementing Official Language" in the Company by TOLIC on 25 Aug 22



Times Ascent EILM "The Eastern India Best Employer Brand Award in the Shipbuilding Sector" on 08 Sep 22



Rajbhasha Kirti Puraskar for the year 2021-22 on 14 Sep 22



Quality Leadership Award & Gold Awards to GRSE QC Teams at CCQC 2022 on 27 Sep 22



Dun & Bradstreet India's Top PSU Award 22 for "Digital Transformation" on 29 Sep 22



Raksha Mantri Award 2021-22 for "Designing the most Silent Ship for Indian Navy for ASW Operations" on 20 Oct 22





PRSI National Awards 2022 for "Best Organisational Efforts", "New R&D Efforts in Defence Sector" and "Outstanding Initiatives for Promoting Medical & Health" on 25 Dec 22



Excellence and Par Excellence Awards for GRSE QC teams at the 36<sup>th</sup> NCQC22 on 29 Dec 22



WSO India Maritime OHS&E Awards 2022 for "Environment Excellence" & "Fire Excellence" on 25 Jan 23



Best Enterprise Award 2022 from WIPS, on 10 Feb 23



Governance Now 9<sup>th</sup> PSU Awards for "CSR Commitment (Overall)", "Digital PSU", "Reskilling of Employees" and "Communication Outreach" on 16 Feb 23



ICC PSE Excellence Awards 2022 for "CSR & Sustainability" on 17 Mar 23



# Commendations

## Employee of The Month

Mar 22



Name: AINUL HAQUE  
Designation : FITTER (SK-II)  
Personnel No. : 130972  
Department : DOCK DEPT.  
Unit : MAIN

Name: SOUGATA DHARA  
Designation : FITTER (SK-II)  
Personnel No. : 425451  
Department : MACHINE SHOP  
Unit : FOJ

Mar 22



Mar 22



Name: MD. GAFFAR  
Designation : SERVICEMAN (SK-I)  
Personnel No. : 457674  
Department : MAINTENANCE  
Unit : RBD

Name: SUBHAS SAHA  
Designation : DESIGN ASSISTANT (S1)  
Personnel No. : 603178  
Department : CDO  
Unit : 61 PARK

Mar 22



Apr 22



Name: JOSNA MAJUMDER  
Designation : PEON  
Personnel No. : 407499  
Department : IE&P  
Unit : MAIN

Name: CHANCHAL KOLEY  
Designation : WELDER (HSK)  
Personnel No. : 437103  
Department : HULL OUT FIT  
Unit : FOJ

Apr 22



Apr 22



Name: SANDIP KR. KHANRA  
Designation : WELDER (HSK-I)  
Personnel No. : 458742  
Department : SF&WLD  
Unit : RBD

Name: BALAI KUMAR DAS  
Designation : LEADING FIRE FIGHTER (SK)  
Personnel No. : 403423  
Department : FIRE FIGHTING  
Unit : TARATALA

Apr 22





## Employee of The Month

May 22



Name: **FATICK NASKAR**  
Designation : **DEPUTY MANAGER**  
Personnel No. : **435770**  
Department : **PIPE SHOP**  
Unit : **MAIN**

Name: **RAJKUMAR MONDAL**  
Designation : **PIPE FITTER(HSK-I)**  
Personnel No. : **443133**  
Department : **MFOS**  
Unit : **FOJ**

May 22



May 22



Name: **KAUSHIK SANPUI**  
Designation : **MACHINIST (SK - II)**  
Personnel No. : **486338**  
Department : **MACHINE SHOP**  
Unit : **RBD**

Name: **PREM DAYAL**  
Designation : **ASST. SECURITY OFFICER (S4)**  
Personnel No. : **456000**  
Department : **SECURITY**  
Unit : **TU**

May 22



Jun 22



Name: **JAWAHARLAL MURMU**  
Designation : **COOK(SSK)**  
Personnel No. : **403984**  
Department : **HOT MEAL CANTEEN**  
Unit : **MAIN**

Name: **DURGA CHARAN SHAW**  
Designation : **STRUCTURAL FITTER (SK-I)**  
Personnel No. : **186668**  
Department : **HULL OUT FIT**  
Unit : **FOJ**

Jun 22



Jun 22



Name: **BISWAJIT HALDER**  
Designation : **SERVICEMAN - III (SSK)**  
Personnel No. : **479638**  
Department : **DOCK DEPARTMENT**  
Unit : **RBD**

Name: **JOYDEEP DUTTA**  
Designation : **SUPERVISOR (S4)**  
Personnel No. : **601055**  
Department : **BAILEY BRIDGE**  
Unit : **61 PARK**

Jun 22





# Commendations

## Employee of The Month

Jul 22



Name: PRASANTA KUMAR SIL  
Designation : PIPE FITTER (HSK)  
Personnel No. : 435991  
Department : PIPE SHOP  
Unit : MAIN

Jul 22



Name: PRADIP KUMAR DAN  
Designation : INSPECTOR (QA)  
Personnel No. : 437044  
Department : QA  
Unit : FOJ

Jul 22



Name: JOYESH NAYAK  
Designation : PIPE FITTER (SK - II)  
Personnel No. : 486210  
Department : PLUMBING  
Unit : RBD

Jul 22



Name: MD. MUKHTAR JAMA KHAN  
Designation : ELECTRICIAN (SK)  
Personnel No. : 602473  
Department : STORES  
Unit : DEP

Aug 22



Name: SUBHAS CHAKRABORTY  
Designation : SERVICEMAN - II (SK-II)  
Personnel No. : 400571  
Department : PIPE SHOP  
Unit : MAIN

Aug 22



Name: SUBIR KUMAR DEY  
Designation : PIPE FITTER(SK-II)  
Personnel No. : 486899  
Department : PIPE SHOP  
Unit : FOJ

Aug 22



Name: PRATAP CHANDRA MONDAL  
Designation : ISSUEMAN - I (SK-II)  
Personnel No. : 459739  
Department : STORES  
Unit : RBD

Aug 22



Name: ASIM KUMAR BARUA  
Designation : SECURITY NAIK (SSK)  
Personnel No. : 474288  
Department : SECURITY  
Unit : 61 PARK



## Employee of The Month

Sep 22



Name: ASHOK SHARMA  
Designation : CRANE DRIVER (SK-II)  
Personnel No. : 421731  
Department : PP SHOP  
Unit : MAIN

Name: ARUP KUMAR SIKDAR  
Designation : STRUCTURAL FITTER (SK-II)  
Personnel No. : 495395  
Department : HULL OUT FIT  
Unit : FOJ

Sep 22



Sep 22



Name: SOMNATH BHATTACHERJI  
Designation : FIREMAN - II (SK-II)  
Personnel No. : 219325  
Department : SAFETY & FIRE FIGHTING  
Unit : RBD

Name: JAGGU KACHHAP  
Designation : FITTER (HSK-I)  
Personnel No. : 270373  
Department : PRODUCT-II  
Unit : DEP

Sep 22



Oct 22



Name: BIJAYA KUMAR SETHY  
Designation : SERVICEMAN - II (SK)  
Personnel No. : 455995  
Department : UTILISATION SERVICES  
Unit : MAIN

Name: DEBASHIS MUKHERJEE  
Designation : ELECTRICIAN (HSK)  
Personnel No. : 429025  
Department : L&W  
Unit : FOJ

Oct 22



Oct 22



Name: MIR SIKANDAR  
Designation : CANTEEN INSPECTOR (SK)  
Personnel No. : 404619  
Department : HOT MEAL CANTEEN  
Unit : RBD

Name: PRITAM ROY  
Designation : LEADING FIRE FIGHTER (SK)  
Personnel No. : 600109  
Department : SAFETY & FIRE FIGHTING  
Unit : 61 PARK

Oct 22





# Commendations

## Employee of The Month

Nov 22



Name: SOMNATH PATRA  
Designation : PIPE FITTER(SK)  
Personnel No. : 436573  
Department : PIPE SHOP  
Unit : MAIN

Nov 22



Name: PRABHAS KUMAR PRAMANICK  
Designation : GAS CUTTER (SK - II)  
Personnel No. : 458116  
Department : PLUMBING  
Unit : RBD

Nov 22



Name: MANI SANKAR MODAK  
Designation : PIPE FITTER (SK - II)  
Personnel No. : 486912  
Department : PIPE SHOP  
Unit : FOJ

Nov 22



Name: GOBINDA DAS  
Designation : SUPERVISOR (S3)  
Personnel No. : 437096  
Department : TTC  
Unit : TU

Dec 22



Name: SK. FEROUZ  
Designation : SERVICEMAN - III  
Personnel No. : 474950  
Department : CARPENTRY SHOP  
Unit : MAIN

Dec 22



Name: SUNIL KUMAR BAIRAGI  
Designation : WELDER(SK-I)  
Personnel No. : 218994  
Department : HULL OUTFIT  
Unit : FOJ

Dec 22



Name: SANJOY KUMAR CHAKRABORTY  
Designation : ISSUEMAN - I (SK-II)  
Personnel No. : 457910  
Department : L&W  
Unit : RBD

Dec 22



Name: AMARJIT CHOUDHURY  
Designation : VENDOR(CANTEEN)  
Personnel No. : 479158  
Department : HOT MEAL CANTEEN  
Unit : 61 PARK



## Employee of The Month

Jan 23



Name: MD. SAMIULLAH  
Designation : SEMI-SKILLED (PG)  
Personnel No. : 473543  
Department : PP SHOP  
Unit : MAIN

Name: DEEPAK KUMAR NASKAR  
Designation : ELECTRICIAN (HSK)  
Personnel No. : 428969  
Department : L&W  
Unit : FOJ

Jan 23



Jan 23



Name: LOKESH BAURI  
Designation : LASKAR CUM SLIPWAY CLEANER - III  
Personnel No. : 477907  
Department : S/B, SHIPWRIGHT & DOCK  
Unit : RBD

Name: TATHAGATA SAMANTA  
Designation : SUPERVISOR (S1)  
Personnel No. : 603173  
Department : CDO  
Unit : DEP

Jan 23



Feb 23



Name: SUBRATA KUMAR MONDAL  
Designation : OFFICE ASSISTANT (GR-I)  
Personnel No. : 400520  
Department : HR DEPARTMENT  
Unit : MAIN

Name: SANTOSH DHAR  
Designation : FITTER (SK-I)  
Personnel No. : 443110  
Department : MFOS  
Unit : FOJ

Feb 23



Feb 23



Name: SWPAN NASKAR  
Designation : SERVICEMAN- III  
Personnel No. : 481129  
Department : SHIP BUILDING SHOP  
Unit : RBD



## Commendations

### STAR Performer

Jan - Mar 22



Name: PEDAPALLI SANDEEP KUMAR  
Designation : DEPUTY MANAGER  
Personnel No. : 601901  
Department : CDO  
Unit : 61 PARK

Apr - Jun 22



Name: BISWAJIT SARKAR  
Designation : SR. MANAGER  
Personnel No. : 432233  
Department : HULL OUT FIT  
Unit : FOJ

Jul - Sep 22



Name: MANISH KR SINGH  
Designation : MANAGER  
Personnel No. : 601359  
Department : OFFICIAL LANGUAGE CELL  
Unit : MAIN

Oct - Dec 22



Name: TANAY SAHA  
Designation : SR. MANAGER  
Personnel No. : 480015  
Department : YM  
Unit : MAIN



*Arise! Awake! and do not stop until the goal is reached.*

*-Swami Vivekananda*





# News Flash

**जीआरएसडि का वेबिनार व स्वास्थ्य जांच शिविर आयोजित**  
कोलकाता. गार्डेनरीच शिपबिल्डर्स एंड इंजीनियर्स लि. (जीआरएसडि) को ओर से गत 24 फरवरी से दो मार्च के बीच वेबिनार तथा जरूरतमंदों के लिए स्वास्थ्य जांच शिविर का आयोजन आजादी का अमृत महोत्सव के तहत नौवें चरण के हिस्से के तौर पर किया गया। 24 फरवरी को 'फ्यूल सेल्स-प्रणाली' के बारे में

**GRSE making seven vessels for exports**  
Defence PSU Garden Reach Shipbuilders and Engineers Ltd. is making seven vessels for exports.

**CORPORATE BUZZ**  
**GRSE job-oriented skill programme for youth at Ramakrishna Math Kol**

**जीआरएसडि को मिला ग्रीन चैनल सर्टिफिकेशन**



कोलकाता. गार्डेनरीच शिपबिल्डर्स एंड इंजीनियर्स लि. (जीआरएसडि) को रक्षा मंत्रालय की ओर से ग्रीन चैनल सर्टिफिकेशन दिया गया. नयी दिल्ली में रक्षा मंत्रालय के डायरेक्टर जनरल ऑफ क्वालिटी एश्योरेंस के मुख्यालय में यह अवार्ड दिया गया. जीआरएसडि के चेयरमैन व प्रबंध निदेशक सोमपद पीआर हरि, आरएस (सेवानिवृत्त) ने वार सर्टिफिकेशन डायरेक्टर जनरल क्वालिटी एश्योरेंस (डीजीक्यूए) के माननिदेशक लेफ्टिनेंट जनरल आरके दास के हाथों से प्राप्त किया.

**Navy launches anti-submarine warfare craft made by GRSE**  
TASS NEWS NETWORK.

Kolkata: Indian Navy has launched its first Anti-Submarine Warfare Shallow Water Craft (ASWSWC) on Tuesday at Khatuapali in Tamil Nadu which was built by the Garden Reach Shipbuilders and Engineers (GRSE) in Kolkata. On Tuesday, the ship made its first contact with the water and headed to the fitting-out berth where it will be fitted with weapons, machinery and sensors before it can be commissioned next year.

**सिटी बाइट्स**



**जीआरएसडि को रक्षा अन्वेषण रत्न पुरस्कार**  
कोलकाता. गार्डेनरीच शिपबिल्डर्स एंड इंजीनियर्स लिमिटेड (जीआरएसडि) को रक्षा मंत्री पुरस्कार के प्रतिष्ठित व एग्रेगेशन सेक्टर में उत्कृष्टता के लिए 'रक्षा अन्वेषण रत्न सम्मान' मिला है. रक्षा मंत्री राजनारायण सिंह ने यह पुरस्कार टोंग में आयोजित की गई थी. माध्यम रहे कि रक्षा अन्वेषण रत्न पुरस्कार नवीनता में उत्कृष्टता के लिए दिया जाता है और जीआरएसडि ने यह पुरस्कार 'डिजिटल एंड वेक्टरपैट ऑफ सफेलेट रिग फॉर डीजल नौवें' के लिए जीआरएसडि को प्राप्त किया.

**NEWS** Click on the underline headline to read more (if any).

**GRSE Strengthens Green Energy Footprint with Inauguration of another Solar Power Plant**



**Garden Reach Shipbuilders and Engineers Ltd. (GRSE) inaugurated another Solar Power Plant of 200 kWp at the Main Works Unit, Cmde PR Hari, IN (Retd.) CMD, GRSE inaugurated the Solar Power Plant in presence of Shri RK Dash, Director (Finance), GRSE and 5 employees of GRSE. The new Solar Plant aims to facilitate reduction in the emission of greenhouse gas and supply power for machinery and other vessels for the shipyard.**

**GRSE is building ASWSWCs for the Indian Navy which will detect enemy submarines in coastal waters. These 77-metre x 10.5-metre wide vessels propelled by three diesel engines will detect enemy submarines in coastal waters. These 77-metre x 10.5-metre wide vessels propelled by three diesel engines will detect enemy submarines in coastal waters. These 77-metre x 10.5-metre wide vessels propelled by three diesel engines will detect enemy submarines in coastal waters.**

**जीआरएसडि के राजस्व में 74% की वृद्धि**

कोलकाता, 12 नवंबर। देश के अग्रणी युद्धपोत निर्माताओं में से एक, गार्डेनरीच शिपबिल्डर्स एंड इंजीनियर्स लिमिटेड (जीआरएसडि) ने 30 सितंबर 2022 को समाप्त दूसरी तिमाही और (उत्तम) के लिए अपने वित्तीय परिणामों की घोषणा की है। परिणामों पर टिप्पणी करते हुए, गार्डेनरीच शिपबिल्डर्स एंड इंजीनियर्स लिमिटेड के अध्यक्ष एवं प्रबंध निदेशक कमोडोर हरि पीआर भाजी. (सेवानिवृत्त) ने कहा कि, वित्त वर्ष 23 की पहली छमाही पिछले साल की पहली छमाही की तुलना में 74% की वृद्धि के साथ प्रचालन से राजस्व बढ़ने से उत्साहजनक है। गत छह महीनों के दौरान दूसरे की 17 ए एचआरडी फ्लैट डिजायनिंग सहित मेगा प्रोजेक्टों के

**जीआरएसडि की ओर से निर्मित सर्वेक्षण पोत 'इक्षक' का जलावतरा**

**GRSE signs MoU to make Rolls-Royce marine engines**

The Kolkata-based public sector shipyard, Garden Reach Shipbuilders and Engineers (GRSE) Ltd., has signed a Memorandum of Understanding (MoU) with Rolls-Royce Solutions of Germany to locally manufacture marine diesel engines. "Under the agreement, GRSE and Rolls-Royce Solutions will jointly produce and localise advanced MTU S400 series engines, with a power of 400 kW, are compact, reliable and easy to maintain," the GRSE said. They are used in Interceptor Boats and other small vessels.

**जीआरएसडि ने की सेरेब्रल पाल्सी पीड़ित बच्चों की आर्थिक मदद**

कोलकाता. सेरेब्रल पाल्सी पीड़ित बच्चों को शिक्षित कर रहे इंस्टीट्यूट को शुक्रवार को गार्डेनरीच शिपबिल्डर्स एंड इंजीनियर्स लिमिटेड (जीआरएसडि) के अधिकारियों ने 33 लाख रुपये की आर्थिक मदद दी. मौके पर जीआरएसडि के रिटायर्ड सीएमडी पीआर हरि, सी एंड एमडी (जीआरएसडि) आरके दास, रिटायर्ड निदेशक (वित्त) सीडीआर शान्तनु बोस, डायरेक्टर (शिपबिल्डिंग) सोनाली नंदी व अन्य उपस्थित रहे.

**BENGAL AND GRSE SIGN PACT FOR NEXT-GEN E-FERRY**  
NAJIB CHOUDHURY, KOLKATA, INDIA

To reduce the carbon emission in the water transport sector in West Bengal, the Manuwa Electric Corporation has awarded a contract to defence shipyards, Garden Reach Shipbuilders and Engineers (GRSE), to design and construct a next-generation electric ferry. Special secretary of the state transport department Anindya Sarangi and GRSE director (Shipbuilding) Commander (Retired) Shantanu Bose and signed the agreement. The "green" vessels has the potential to replace the conventional diesel engine driven ferries operated in Hooghly river. The arrival of the electric ferry will reduce the carbon emission in the water transport sector in West Bengal.

**जीआरएसडि ने लॉन्च किया एंटी सबमरीन वारफेयर शैलो वाटर क्राफ्ट**

कोलकाता. गार्डेनरीच शिपबिल्डर्स एंड इंजीनियर्स (जीआरएसडि) लिमिटेड द्वारा बनाये गये भारतीय नौसेना के पहले एंटी-सबमरीन वारफेयर शैलो वाटर क्राफ्ट का शुभारंभ किया गया।

**GRSE showcases shipbuilding, engg capabilities at DefExpo '22**

KOLKATA / GANDHINAGAR: Garden Reach Shipbuilders and Engineers Ltd. (GRSE), a Mini Ratna Category 1 Defence PSU and a leading warship-building company of India, showcased its state-of-the-art ship building technology and the varied range of maritime platforms that have been developed by the shipyard, at the 12th edition of the Government of India's flagship Defence Exhibition-DefExpo 2022 at Gandhinagar, Gujarat.



**GRSE signs MoUs for strategic collaborations at Aero India 2023**

GRSE achieves rare feat by laying keels of three ships concurrently

**It has achieved more than 90 per cent indigenisation on its recent projects**

GRSE said it signed MoUs with Aerospace Engineers Pvt Ltd, Central Institute Fisheries Technology, Dynatron, Keltrom, Krasny Marine, Naval Group France, Reklise Marine Pvt Ltd, Rolls Royce Solutions GmbH (MTU), and Tunga Aerospace Pvt Ltd.

**INS Arnala touches the waters of Bay of Bengal**

First of 16 anti-sub warships built indigenously

The Navy's need for shallow water anti-sub craft stems from the peculiar nature of the Arabian Sea bed. The ship has been named INS Arnala.

**Navy hands over 11th**

INS Vagad, the 11th Kalbari class corvette, to the Indian Navy. The ship is the first of its kind to be built indigenously.









# Moments

## Handing over of Dividend Cheque for FY 2022-23



## 106<sup>th</sup> Annual General Meeting of GRSE on 26 Sep 22



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