IMU signs MOUs with BW LPG for Female Cadets Scholarships..... From Page : 1

Dr Malini Shankar VC, K Saravanan Registrar IMU-HQ, Robert Roche MARTRADE & Dr R.Balaji, Director IMU-Chennai

India, and we are committed to a long and meaningful collaboration to advance our shared interests in nurturing future generations of seafarers."

Capt. K.N. Ramesh, Master Mariner, MARTRADE sponsored **MERIT AWARDS for the best Engine and Deck Cadets of IMU, Chennai Campus every year for the next 3 years** and the said Award to be named in his father's name- **K.R.A NARASIAH MERIT AWARDS, MOU was signed.** The MOU states:

1. Shri. K.R.A. Narasiah Merit Awards will be announced and distributed on **25th June of every year (being the Day of Seafarer)** for the best Engine and Deck Cadets of IMU, Chennai Campus **for the next 3 years.**

2. Total amount of **Rs. 2,00,000 (Rupees Two Lakhs) per year** will be the amount to be utilized for distributing Shri. K.R.A. Narasiah Merit Awards.

3. The guidelines for conducting Shri. Narasiah Marine Heritage, History Quiz shall be as per the requirement.

About BW LPG India

BW LPG India was established in 2017 and is India's largest owner and operator of Very Large Gas Carriers (VLGCs). The Company's vessels are maintained to international standards and are ready to serve customers safely and efficiently. BW LPG India is a subsidiary of BW LPG, the world's leading owner, and operator of LPG vessels, owning and operating VLGCs with a total carrying capacity of over 3 million CBM. More information about BW LPG India can be found at **www.bwlpgindia.com.**

Case Study on Running Live Drone Delivery Route in Nizamabad- By DRONECO

DRONECO started identifying the locations where connectivity was still not resolved. After going through the data, DRONECO undertook the project to connect Nizamabad's location to nearby villages and cities for express deliveries.

DRONECO started the project to deliver medicines and clinical items to the hospitals from the warehouse in Nizamabad.

Operation details:

The main warehouse has been set up in Nizamabad where all the medical supplies have been stored. During the route exploration, it was understood that deliveries of medical items in many areas take 4 hours on average. **In some cases, same-day delivery was not possible because of poor road connectivity. Thus, it became a challenge to deliver medical goods on time to hospitals, especially in cases of medical emergencies.**

DRONECO, after interacting with the medical vendors and hospitals, defined routes to start serving the community at a faster pace. **The average TAT to deliver goods in these locations came down to 39.4 minutes.** This ensured not only a faster delivery of emergency items but also helped save lives in medical emergencies.

The operations are defined after collaborating with close to 45 hospitals in these regions. DRONECO provided a solution, where goods are picked up directly from the warehouse and delivered directly to the hospitals. Take-off and landing locations are marked on either the rooftop of hospitals or at a radius of 2 Kms from the hospitals if landing space is not available within the hospital's premises. The drones are used to transfer the goods from the warehouse to the hospitals.

After marking the take-off and landing locations, drones are loaded with goods. Once the receiver location is received, the mission is defined for the drone with the help of UTM. The details are fed into the system, and the final path for the drone is defined by UTM and created in-house. UTM checks and identifies the red, yellow, and green zones and creates a path to fly. If permission is not received for the drone to fly in the red zone, an altered path is defined by the system. The entire path-defining process is automated by the software to avoid any human error. Once the path is finalized, the drone initiates a health check-up, which defines whether it is fit to complete the mission or not. The data is shared with the UTM, which ensures the drone is fit to complete the mission. Once the green signal is received from the UTM and drone operator, the drone is ready to take off.

Real-time drone monitoring is done through UTM and the drone pilot. The drone pilot ensures the drone is at the right height and on the right path during the operation. The entire flight is automated. DRONECO follows level 5 automation for the operations. This eliminates human error in BVLOS missions. Also, the drone's health is shared on a real-time basis with the drone operator through UTM. In case of emergencies, the drone can be switched from autopilot to manual mode. This ensures an additional layer of safety during the operations.

The route was made operational on 18th November 2022. After starting the routes, on average, 9 deliveries are completed daily. The first delivery was done from Nizamabad to Yedapally. Post this, more hospitals were connected and deliveries were completed.

Turn to page -4 >>

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Maritime Tabloid English Weekly Thrice E - Paper

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Case Study on Running Live Drone Delivery Route in Nizamabad.....

From Page : 3

With drone deliveries becoming a reality, delivery times for clients were able to be cut by ~53%. Having an average delivery time of 5–6 hours on these routes, DRONECO was able to cut down the time to 39.4 minutes on average. This proves a faster and better mode of transportation in the locality. With these numbers, 400 hospitals will be joining the network of drone delivery by May 2023.

DRONECO is adding more routes to the existing routes to serve a bigger area with express connectivity. DRONECO will be operational in 21 cities by May 2023. This will give us a bigger chance to serve humanity and save human lives.

From	To	Distance (Drone miles in kms)	TAT (in mins)	Minimum TAT by road (in mins)	Average TAT by roa (in mins)
Nizamabad	Armoor	24	30	90	270
Nizamabad	Banswada	40	50	100	300
Nizamabad	Bodhan	23	30	90	270
Nizamabad	Kotagiri	33	38	120	420
Nizamabad	Nandipet	30	35	50	150
Nizamabad	Navipet	16	20	31	93
Nizamabad	Nirmal	54	65	110	330
Nizamabad	Nizamabad	5	3	15	45
Nizamabad	Pothangal	38	45	90	270
Nizamabad	Yedapally	17	25	40	120
Nizamabad	Yellareddy	53	60	120	360
Nizamabad	Jannipalle	17	22	40	120
Nizamabad	Medak	107	90	180	540

To start the operations, it was important to identify places from where drones could take off and land. The drone needs a 5m X 5m open space to operate. Thus, the team first identified the locations where this open space is available and is also in the permissible fly zone. Nizamabad warehouse is the perfect example of a location to operate a drone. The warehouse is 20 x 15 sq. ft., which gives an area for 4 drone landing and take-off locations. The place can also be used to store goods for the vendors. Thus, Nizamabad's warehouse has been identified as the Mother Hub by DRONECO. Nizamabad warehouse also has a control unit from where all the local drone traffic is controlled.

Conclusion:

Drone delivery can indeed be faster and more cost effective than traditional transportation methods in certain situations. For example, drones can be used to deliver goods to remote or hard-to-reach areas where it would be difficult or costly to build roads or other infrastructure. Drones can also be used to make deliveries in urban areas where traffic congestion or lack of parking makes it difficult for traditional delivery vehicles to operate efficiently.

To make drone delivery more attractive to partners in the logistics industry, drone companies may need to find ways to reduce the cost of drone operations. This could involve optimizing routes to minimize flight time and distance, increasing the efficiency of drone operations through the use of advanced technologies such as machine learning, or finding ways to lower the cost of maintenance and repair. It is also important for drone companies to work closely with regulators and policymakers to ensure that the necessary infrastructure and regulations are in place to support the widespread adoption of drones in logistics.

PIL: Successful completion of Intermodal Service from India to Ethiopia

MARINE NEWS

New Delhi
Sagar Sandesh News Service

PIL successfully delivered 10 TEUs or five 40' HC containers of cargo on 12 April 2023, through its intermodal service of ship and trucks, from India to Ethiopia via Djibouti in East Africa, informs a recent communique from PIL.

It was all the more meaningful for PIL as the cargo was meant for humanitarian aid for the needy in Ethiopia.

The total duration taken for the shipment to depart India and arrive at Ethiopia, inland at East Africa, was less than 35 days.

PIL happy to have carried cargo for humanitarian aid to people in Ethiopia

The efficient delivery over sea and land through three destinations was powered by PIL's Through Bill of Lading capability. The cargo was first loaded at Nhava Sheva which departed on 13 March 2023. On 5 April 2023, the shipment arrived at Djibouti and they were loaded on trucks. Following customs clearance, the trucks with the containers departed from Djibouti and they eventually arrived at Addis Ababa in Ethiopia on 12 April 2023.

PIL is happy to have contributed to transporting the much needed aid items in a timely manner to the people in Ethiopia, and it will continue to expand its network of intermodal services to meet the growing needs for efficient cross-border transportation.