

IT'S NOT A DREAM, IT'S THE MALDIVES

IMAGINE SAILING AT SEA, A COOL BREEZE BLOWING THROUGH YOUR HAIR AND THE SUN'S RAYS CARESSING YOUR SKIN. THEN ARRIVING ON AN ISLAND AND WALKING BAREFOOT ON THE FINE WHITE SAND, BREATHING DEEPLY AND LISTENING TO THE GENTLE SOUNDS OF NATURE, THE MELODIOUS SONGS OF BIRDS AND WAVES CRASHING ON THE MAGNIFICENT COASTS. THE PALM TREES SWAYING TO THE RHYTHM OF THE RELAXING BREEZE, IMMERSING OURSELVES IN THE TURQUOISE WATER, SO CLEAR AND CRYSTALLINE THAT IT SEEMS LIKE A DREAM. IT'S A DREAM COME TRUE, IT'S THE BEAUTIFUL MALDIVES, AN ARCHIPELAGO OF 1,200 CORAL ISLANDS IN THE INDIAN OCEAN. HERE EVERYTHING IS MAGICAL AND SURREAL. IT IS HEAVEN ON EARTH, PARADISE OF PARADISES.

➔ **SECTOR: WATER**

MALÉ WATER & SEWERAGE COMPANY PVT. LTD. (MWSC)
Malé, Maldives

COMPLETE FULL LINE COMPRISING:

- ➔ ENOBERG monoblock ELC for rinsing, filling and capping
- ➔ ACP 20 S ERGON case packer with PID for disposable glass bottles
- ➔ ACP 20 G ERGON case packer and DV for returnable glass bottles
- ➔ Conveyor belts and subsupplies: bottle washer, water carbonation system, CIP, self-adhesive labeler, roll-fed labeller for plastic paper labels, drying system.



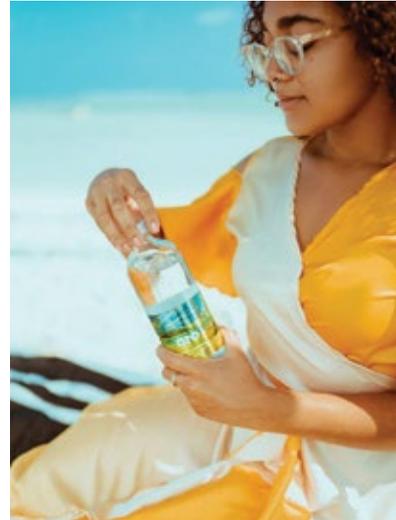
MALÉ WATER

& SEWERAGE COMPANY PVT. LTD.

“BOTTLING IN PARADISE”: SECOND EPISODE

Behind the postcard image of heaven on earth, are companies such as Malé Water & Sewerage Company Pvt. Ltd. (MWSC), which, thanks to the growing commitment to sustainable development and the use of cutting-edge technologies, contribute to the economic progress and environmental protection of one of the most exclusive places in the world. Maldivian life revolves around the protection of its beautiful landscapes; therefore, industrial realities such as MWSC, leader in the production and bottling of natural water, pay the utmost attention in adopting the latest generation production systems capable of drastically reducing, if not completely zeroing, the impact on the ecosystem in which they operate. After the first collaboration in 2012 between SMI and Malé Water for the design, production and installation of a complete PET line of 14,000 bottles/hours, recently the

Maldivian company has again turned to SMI for the supply of a glass line, both for returnable and disposable containers, which was necessary for the launch of the new ARO branded bottle, this brand represents “the Maldives in a bottle”. For this second “Bottling in Paradise” project, intended for the production of still and sparkling water, the MWSC company chose a filling and capping monoblock of the ENOBERG ELC range (a company within the SMI Group) and two SMI packaging machines with the pick & place system of the ACP ERGON range; the first is intended for the packing of disposable glass bottles in RSC boxes, while the second for the packing of returnable bottles in plastic crates. The packaging machine that manages the plastic crates has been integrated into the pre-existing PET line to allow the customer to pack, in addition to the glass containers, also the TaZa PET bottles in RSC cardboard boxes.



➤ FOCUS ON MALÉ WATER

With the launch of the new ARO glass bottle, Malé Water & Sewerage Company Pvt. Ltd. (MWSC), established in 1995 with the main objective of meeting the growing water needs of the capital Malé, confirmed itself as an important player for the local economic system. The substantial and continuous investments in advanced technologies, the plans for implementation of scheduled plant maintenance and the professional growth of the company staff are the key factors that have allowed Malé Water to respond effectively and quickly to market demands in terms of quantity and quality of the product offered.



AT THE SIDE: THE VIDEO ENTITLED “NALA NALA RAAJE” - WHICH MEANS “KEEPING THE MALDIVES BEAUTIFUL” - LAUNCHED BY THE MALDIVIAN MINISTRY OF TOURISM TO CELEBRATE THE GOLDEN JUBILEE OF TOURISM IN THE ARCHIPELAGO.



aro™



THE MALDIVES IN A BOTTLE

Inspired by the extraordinary natural beauty of the Maldives archipelago, Malé Water & Sewerage Company (MWSC) recently introduced the new glass bottles of "ARO", the first premium water brand of these islands, specifically aimed at the tourism sector. The ARO, brand, which in Dhiverhi (the local language) means "fresh", began as a philosophy of life to keep the Maldives in an "aro" state, that is fresh, pure, uncontaminated. ARO is the company's eco-conscious commitment to reduce the use of single-

use plastic across the nation and to enclose all the magic of the earthly paradise of the archipelago in a bottle: "the Maldives in a bottle"! Through the new glass bottles, the MWSC company captures the essence of the pristine purity of the Maldives and spreads the culture of its ecosystem. ARO water therefore, has become an engaging experience for consumers, at regular intervals the labels on the 0.5 and 1 L bottles, tell particular stories of the Maldives, inviting consumers to learn more about these numerous and beautiful islands of the Indian Ocean.



➤ "ARO" (AH-ROH): FRESH, FULL OF LIFE

ARO Life is a philosophy that strives to keep the Maldives in an "aro" and "fresh" state.

It is a holistic approach, aimed at enriching life and finding the formula for sustainable growth. ARO Life is a platform for local brands and artists, thanks to which this philosophy has become a project that involves local communities. The labels of the bottles are a work of art by Maldivian artists through which they express their creative flair; each label recalls the paradise of paradises, the Maldives, and responds to the slogan "Nala Nala Raajje" launched by the Ministry of Tourism, to celebrate the Golden Jubilee of tourism in the archipelago.

Moodhu: the label of the sea and the ocean

Moodhu's design, is inspired by azure waters and the underwater world. The label represents a breathtaking spectacle of graceful beauty, with the presence of species of unique fish, all surrounded by a Maldivian boat, an example of the unique craftsmanship that has been handed down for generations.

Dhonveli: the label of the white sand

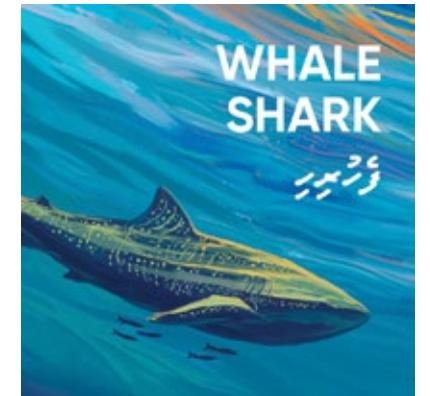
Dhonveli's design depicts the beautiful, white, sandy beaches and elements of the exotic landscape of the islands, with its palm trees, heron and rare shells.

Iruvai: the label of the hot monsoon

The label "Iruvai" is inspired by the sunny tropical life of the Maldives and features the typical elements of the hot and dry monsoon of these islands, such as the dragon fly, the beautiful tropical flowers and the surf that is practiced mainly during this period.

"Nala Nala Raajje"

Nala Nala Raajje is the slogan launched by the Ministry of Tourism to celebrate the Golden Jubilee of the tourist influx in this remote corner of the world. On that occasion, the Maldivian authorities also launched a multimedia challenge that took place on various social platforms, with fantastic cash prizes and holiday packages for the winners. Participants had to upload short video clips to show the beauty of the Maldives and raise awareness of the issue of waste management.





**THE SUNNY SIDE OF LIFE:
SUN, SAND AND SEA**



Marked as “Maldives in a bottle”, the three sets of ARO bottle labels represent a particular aspect of the Maldives and symbolise the natural beauty of this earthly paradise.

Glass bottles, available in 0.5 and 1 L, are helping these islands to gradually abandon single-use plastics.

The new ARO brand was presented to the market in November 2022 during a special ceremony, held in the magnificent marina of The Marina at Crossroads, an extraordinary leisure destination fully integrated on multiple islands, in the presence of the Minister of Transport and Civil Aviation Aistha Nahula.

SMI ASIA Services Sdn Bhd, represented by Managing Director Davide Danna, had the honor of participating in the important event as a partner of MWSC for the packaging process of the new bottles.

On that occasion, the company said that the ARO water bottles are in line with the government’s policy for reducing the use of disposable plastic, introduced with the aim of promoting the Maldivian slogan “Nala Nala Raajje”, which means “keep the Maldives beautiful”.

In a speech during the ceremony, MWSC CEO Hassan Shah said that “the ARO water bottle represents the Maldives in a bottle, because it encompasses all aspects of these extraordinary islands.”

This is a very important step forward to promote the beauty of the Maldives among tourists from all over the world, and to highlight the importance of operating sustainably to protect and preserve the natural environment,” Shah noted.

The CEO of MWSC also said that “MWSC will launch other products under this brand that can compete with products from foreign markets”.



↑ ABOVE: HASSAN SHAH, CEO OF MWSC.

ARO water undergoes a meticulous treatment and mineralisation process, which results in high-quality enhanced and balanced water. It is the premium water of the Maldives.

During the ceremony, MWSC CEO Hassan Shah also said that “Maldivian tourism is advancing at a high speed and the water bottling industry can only be supported by introducing and promoting local products.”



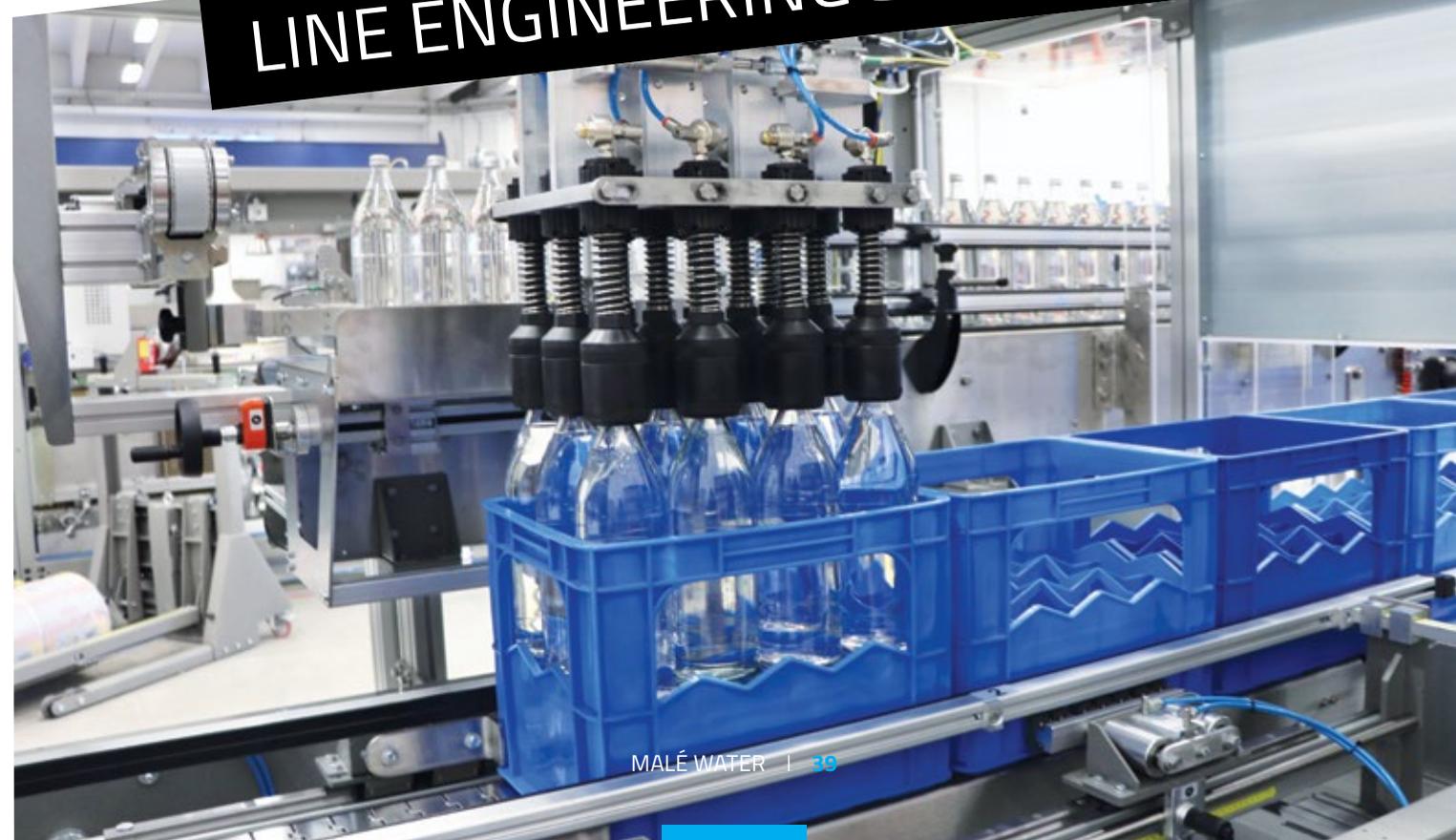
➔ **SMI ASIA SERVICES SDN BHD**

Since 2012, the SMI Group has been present in Southeast Asia with the subsidiary SMI ASIA SERVICES SDN BHD, which provides fast and efficient local support to numerous customers in the area. Competence, professionalism and availability of the 21 members of the commercial and technical staff, are the key factors behind the activity of the branch, which is based in the city of Shah Alam, a few kilometers from Kuala Lumpur (Malaysia), in a structure of 1,500 m² used as commercial and technical offices and a spare parts warehouse. The presence of a local structure represented a strong point for SMI in 2012, for the first line project installed in Malé Water, and in 2022 for the new project dedicated to the packaging of ARO bottles. The direct presence on the territory allows SMI to respond promptly and effectively to the requests for competitive bottling and packaging plants and offer an excellent and fast service, operational even when the offices of the SMI headquarters in Italy are closed. SMI ASIA provides a complete service, from the design of filling and packaging plants to the commercial management of orders, up to monitoring and maintenance of the same. To date, the SMI ASIA branch supports almost all of Southeast Asia, covering an area that includes the presence of over 1,000 SMI machines in operation. The continuous investments have also allowed the Malaysian branch to have a large spare parts warehouse, with about 3,200 codes of different parts, for a total value of about 600,000 euros.



VERSATILE AND COMPACT

LINE ENGINEERING SOLUTION



➔ **AT THE SIDE:** SOME MOMENTS OF THE PRESENTATION CEREMONY OF THE NEW ARO BRAND - FROM LEFT: DAVIDE DANNA, DIRECTOR OF SMI ASIA SERVICES AND ALI SHAHEEM, GENERAL MANAGER MANUFACTURING OF MWSC.



SMI SOLUTIONS FOR MALÉ WATER



The line solution recently installed by SMI at the Malé Water production plant is a bespoke line created to fully meet the technical and economic expectations of the customer, who, since the preliminary stages of the study of the new project dedicated to the packaging of ARO and TaZa glass bottles, has emphasised the sustainability of the proposed solutions.

Malé Water's goal was to implement innovative solutions, based on latest-generation machines, characterised by cutting-edge solutions in terms of reduction of production costs, electricity consumption, maintenance costs and environmental protection.

The new supply is integrated with the first 14,000 bottles/hour PET line installed by SMI in 2012 for the bottling and packaging of TaZa bottles in PET, and ensures the customer the simultaneous



operation of the two production lines when the packing of PET bottles is carried out in shrink film bundles.

For Malé Water & Sewerage Company, it is essential to have reliable and flexible production facilities that can easily adapt to changing market needs.

After a careful analysis of the Maldivian company's needs for the production of still and sparkling water in disposable and returnable bottles, the experts of SMI's System Engineering Department have developed a line solution able to meet the needs of simplicity, cost-effectiveness of management, compactness of the systems and reduced maintenance.

The complete line solution for TaZa PET and glass bottles and for the new ARO glass bottles proposed by SMI, provides the integration of the plant's management and control systems into a few "touch-screen" logical units, so as to allow the entire bottling line to be managed by a small number of operators.

The storage of raw materials is centralised in a single area, facilitating the handling of pallets and raw materials, while the unloading area of finished products, is located on the same side of the line making the production process more fluid and efficient.



➤ ELC RINSING, FILLING, AND CAPPING MONOBLOCK

The line solution supplied to Malé Water for the "Bottling in Paradise" project of the new ARO bottle includes a rinsing, filling and capping monoblock from ENOBERG's ELC range for level gravity filling.

Products worked: 0.5 and 1 L ARO and TaZa glass bottles filled with both still and sparkling water. Closure with ROPP aluminum screw cap.

Main advantages:

- Compact monobloc design
- Reduced overall dimensions within the production line
- Low transport and maintenance costs
- Excellent value for money
- Quick format changeover to quickly switch from one bottle to another
- Versatile machine suitable for different products
- Format parameters can be managed directly through touch-screen HMIs
- High level of reliability
- Independent movement of the machine axes by means of brushless motors with integrated drive (ICOS series), to ensure perfect synchronism between the machine starwheels and low noise during operation.

➤ ACP 20 G ERGON CASE PACKER

Products worked: TaZa 0.5 L and 1 L disposable glass bottles

Packs created: the bottles are placed in plastic crates in 3x4 format

Main advantages:

- Pick & place solution for bulk product insertion from above
- Flexible solution with the possibility of placing the bulk product in cardboard boxes or plastic crates
- Solid monobloc structure
- High flexibility to pack a wide range of products
- Grouping of alternating cycle products, through a pneumatic separation system
- Cardboard magazine located next to the machine, with easy and ergonomic loading of pre-folded blanks (for packing in cardboard boxes)
- Possibility to overlap the product in the box during the insertion of the same
- Possibility to process delicate products, such as wines, sparkling wines and liqueurs, without damaging the labels during processing in the machine
- Easy machine access
- Mechanical wear and maintenance reduced to a minimum
- MotorNet System® automation and control technology based on Sercos fieldbus



➤ **ACP 20 S ERGON CASE PACKER with separator insertion device**

Products worked: ARO glass bottles in 0.5 and 1 L. TaZa PET bottles in 0.33 / 0.5 / 1.5 L.

Packs formed: 0.5 L ARO bottles are packed in cardboard boxes equipped with separators in 4x4, and the 1L bottles in 3x3. TaZa PET bottles in 0.33 and 0.5 L are packed in boxes in 4x6 and the 1.5 L PET bottles in boxes of 3x4.

The ACP 20 S ERGON case packer supplied by SMI carries out the secondary packaging of the new ARO glass bottles and the TaZa PET bottles of 0.33 L, 0.5 L and 1.5 L that were previously packed by a wrap-around case packer of the LWP 30 ERGON range.

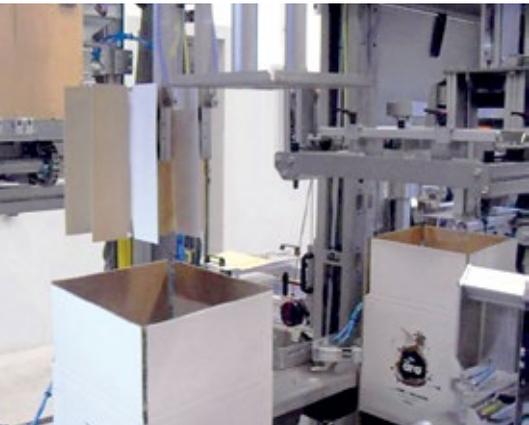
In the area of the machine infeed, a belt equipped with low friction coefficient, thermoplastic chains transports the product to be packed.

In the former area, the products are grouped in the desired format alternately, by means of a mechanical product separation system, consisting of a pneumatic device for the upper and lower blocking / release of the bulk product, adjustable in height and width on the leading side of the product.

The model supplied to the Maldivian customer is equipped with the optional PID (Partitions Inserting Device) to insert pre-mounted separators of stretched cardboard inside the cardboard boxes, in order to protect the glass bottles from damage or breakage and preserve the labels from possible abrasion.

The cardboard boxes made by the new ACP 20 S ERGON are transported by Smiline conveyor belts to the infeed of the APS 1035 P automatic palletising system, which has been in operation since 2012; it is a mono-column system with two Cartesian axes, where the vertical axis consists of a fixed column along which the horizontal transverse runs, while the horizontal working axis is formed by the tansom, along which the gripper runs.

The packs arriving on the single-lane infeed belt are grouped in the row pre-former area. The row is then lifted by the gripper, which, with rapid and precise movements, places it in the correct place on the pallet, contributing to the formation of a complete layer in a very simple way.



➤ **CONVEYOR BELTS**

Function: transport of glass bottles from the rinsing, filling and capping monobloc; infeed and outfeed handling to/from ACP ERGON case packers; integration into the PET conveyor line supplied in 2012.

Main advantages:

- Loose product conveyor belts ensure smooth handling of containers entering the ACP case packer
- Compact and uniform movement of cardboard boxes and plastic crates
- The modular structure and the high compatibility with other systems allow installation, start-up and testing operations to be carried out in an extremely simple way
- Synchronisation with the conveyor belts of the PET line for the passage of PET bottles on the line of glass bottle belts for packing in RSC boxes
- Simplified maintenance operations
- Highly reliable system, thanks to the structure and components in AISI 304 stainless steel.
- Format changeover times reduced to a minimum.