



MEERU ISLAND RESORT & SPA SUSTAINABILITY REPORT 2015 - 2017

Sustainability Policy Statements

At Crown and Champa Resorts (CCR) and Meeru Island Resort & Spa, we are dedicated to high standards of hospitality and advocate environmentally sustainable business operations. Our aim is to positively impact the communities in which we operate through energy-efficient practices and sustainable education, while maintaining high-quality services to our guests. We acknowledge the need for responsible and sustainable environmental management at all levels, and will strive to incorporate good environmental practices into all of our decisions and operations. Our Resort endeavors to adhere to the following principles:

- a) Establish ethical environmental objectives and integrate a process of verification.
- b) Comply with all applicable environmental laws and regulations embedded with sustainably.
- c) Actively improve environmental performance and minimize environmental impacts through
 - ✓ taking measures to decrease pollutants and other harmful emissions ,
 - ✓ upgrading hotel lighting and appliances to ensure efficient energy use and utilization of low-flow aerators in sinks and showerheads as a means of conserving water, and
 - ✓ Minimizing waste by reviewing purchasing practices and segregating wastes for reuse and recycling.
 - ✓ Promote environmentally responsible behavior and educate on environmental issues among our staff, clients, suppliers, and the community.
 - ✓ Monitor our environmental impacts and set goals to continually improve our sustainability efforts.

In pursuit of this venture, we will evaluate the hotel activities and will seek to improve any that adversely affect the environment. Furthermore, we will provide public displays information to customers and guests to educate them regarding the impact of our activities on the environment, and also to encourage them to assist us in achieving our goals. We are committed to this policy of environmental stewardship, sustainable business practices, and excellent service.

This policy will be revised periodically to ensure its applicability to activities of the Resort and to align with CCR's common sustainability policy and vision and the industry's evolving standards.

Energy management

Meeru Energy saving in numbers

| | |
|-------------------------|---|
| Actual 2015 | 106 KWH per guest night (End of year average of 2015) |
| Actual 2017 | 102 KWH per guest night |
| Overall Reduction | 4%, compared to 2015 |
| Target Reduction FY2018 | 6%, compared to 2015 |

- Replaced the lights from Incandescent to CFLs & LEDs
- Decision is made to change completely to LEDs throughout next 5 years
- In selecting electrical equipment, attention is given to select best suited equipment for the purpose more focused on electrical consumption to avoid excess electricity usage
- Awareness information on energy saving such as turning off interior and exterior lighting, pumps, air conditioners, fans, computers, printers, etc. are incorporated into orientation program
- Timers are used for road and garden lights to make above mentioned function automatic
- Decision made and a Schedule is in place to replace old air conditioners with new inverter type air conditioners
- A project is in place to install Energy management systems for new staff buildings. This automated smart system will control the energy usage by automatically shutting off the electrical system on exit of occupant.
- Small project of Photovoltaic system is on the way. Seventy percent of the equipment including Solar Panel and inverters are already purchased. Installation to be started during the last quarter of 2018.
- Use re-chargeable LED's for outdoor events are in practice.
- Heat Recovery water heaters are used in guest rooms for producing hot water

Water management

Meeru Water saving in numbers

| | |
|-------------------------|--------------------------------------|
| Actual 2015 | 1.26 M ³ PGN |
| Actual 2017 | 1.2 M ³ PGN |
| Overall Reduction | 5% (63 liters) PGN, compared to 2015 |
| Target Reduction FY2018 | 7%, compared to 2015 |

Water management have been a very key area of concern for us and we have been adjusting the flow rates, calibrating the equipment for optimum water usage.

Reduced flow output;

- Maximum Flow, Shower Heads =10 LPM
- Maximum Flow, Tap: Guest Area, Employee & Public Bath rooms = 6LPM
- Maximum Flow, Tap: Other Areas like bars, Kitchen etc. = 10LPM
- Drip irrigation system is installed for Garden

- Use of grey water for Meeru Garden is implemented.
- Drip irrigation system with use of grey water for gardening (all around the island) is partially completed.
- To minimize water loss
 - Plumbers are kept on-call to attend water leaks and staff (especially housekeeping and kitchen) are trained to immediately report leaks
 - Regularly needed spare parts are kept in stock
 - Parts are purchased from reputable manufacturers
- 78% of normal taps used for foot washing is replaced by flow controlled hand showers to reduce water consumption

Waste management

Meeru Waste reduction in numbers

- Total Waste produced PGN, 2016: 6.77 Kg
- Total Waste produced PGN, 2017: 5.78 Kg
- Percent reduction PGN: 15% (0.99 kg)
- Target Reduction 2018: 18% reduction compared to 2016
- Garbage Disposal Trips to THILAFUSHI Reduced by 43% compared to 2015

| Comparison between 2016 & 2017 | | | |
|---|---------------------|-------------|----------------|
| Type | Description | % | |
| Waste 1 | Food Waste | 6.8 | Reduced |
| Waste 2 | Shredded Tree Waste | -0.5 | Increased |
| Waste 3 | Compacted Plastics | 29.3 | Reduced |
| Waste 4 | Crushed Glass | 4.5 | Reduced |
| Waste 5 | Compacted Metal | -0.3 | Increased |
| Waste 6 | Other Waste | 43.0 | Reduced |
| Total Waste | | 14.6 | Reduced |

- The resort practices bulk purchase (dry materials, frozen products, bulk liquid housekeeping products, beverages, etc.) through suppliers in Male', and purchases smaller amounts direct from local suppliers (mostly fresh fish, vegetables, fruits and miscellaneous items).
- Tree Waste is composted. This reduces number of garbage trips made to Thilafushi.
- Resort addressed Main component of plastic waste (plastic water bottles) in 2014 by opening a bottling plant reducing it by 30%. It will further be reduced during this year by introducing "re-usable water bottle" for all employees of the resort.
- Resort has reduced the number of garbage disposal trips made to Garbage Island by 43% since the starting of use of a shredder for chopping tree waste.
- Number of boat trips for Garbage disposal (transporting to Garbage Island) is reduced from 37 trips to 21 Trips (by 43%).
- Drinking water produced in-house is made available for staff helped reduce plastics
- Used oil from generators and kitchens are re-used to run incinerators reduces diesel fuel cost.

Chemical management

- We have committed ourselves to purchasing environmentally friendly chemicals and thus we are buying all cleaning chemicals from Ecolab.
- Purchase of R22 is stopped from the year 2016. It is replaced with either 417a or 410.
- A plan in place to replace all the units with R22 by the end of 2020.
- Fertilizers produced from Shredded tree waste & STP are used for gardening reducing the purchase of fertilizers thereby.
- New chemical room is made in 2016.
- New chemical room for food grade chemicals is to be built by the end of 2018.

Environmental awareness

- Environmental awareness program is run by training department incorporated with “Nature Walk” to make aware the staff about the environmental concerns
 - New “Coral Planting” project started in 2016 is succeeding well and the very first excursion to new Coral Garden took place on second week of April 2018 will be continued as a regular event from there on wards
- Special events celebrated in relation to Environmental Awareness every year
 - World Environment day celebration
 - Earth Hour Celebration
 - World Tourism Day, focused on cleaning programs

Supporting local community

Meeru supports the local community in different ways;

- The biggest being employment. Of all staff, over 60% are locals, and all have the opportunity to work their way up the ladder. This can be seen from the senior management team which is also comprised of a majority of locals.
- Purchasing the fish locally from the fishermen, cuts out the middlemen, and the fishermen are given the market price for their product. All our fish come from fishing boats from our neighboring islands, and are fished using pole and line, which is one of the most sustainable fishing methods.
 - Fish purchases, Total 2016: 110884 kg, \$ 226173
 - Fish purchases, Total 2017: 114796 kg, \$ 266444
- Monitoring and implementing quality controlling mechanisms required to meet international standards with local suppliers.
- Continue buying traditional local roofing thatches from local suppliers
- Local culture is promoted by having weekly cultural nights performed by groups from nearby local islands
- Regular Excursions are made to local islands
- Blood donation programs

We will continue to maintain this relations with the local community, and also try to find other areas in which we can get the participation of the local community.

Up Coming Developments

Development activities planned for 2018

- Upgrade staff accommodation
- Renovate main kitchen
- Install photovoltaic system
- Upgrade food waste disposal system
- Install energy management system in the rooms
- Replace air conditioners as per the plan
- Introduce paper straws to replace plastic straws
- Introduce a “carry back” bag for plastic garbage for guest

Moving forward

Meeru will constantly strive to maintain a cleaner, greener and chemically balanced safe environment for all its living beings. To do this we shall;

- Continue our ongoing endeavors to sustain present-day environment.
- Identify ways, practice methods that may help step - up the current fallouts.
- Improve monitoring
- Have meetings to further discuss the current statistics, review the existing waste reduction strategies and opportunities, and re-start the activities stated in our sustainability policy such as having “waste census weeks”.

Our aim is to exceed the CCR expectations written on the sustainability policy and go to a higher level in safeguarding the environment and enlarge the ecological foot print thereby.
