



Printed in India 2018-19



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# Operational & Periodical Maintenance Manual

## Per Season

1. Check for water leakage and control it if any.
2. Check the metal structures for rusty zones. If found, paint the rusty zones with zinc-based paint.
3. All nuts, bolts and loose components to be tightened at the correct torque value.
4. All the fiberglass components to be checked and cleaned from the dirt, scaling etc.
5. Check fiberglass components for any cracks or damages which can disrupt the rides.
6. For dull slide surfaces, ensure proper sanding, buffing, re-polishing and cleaning so that it eases the rider experience.
7. Check all the riding tools (tubes, mats, rafts) in terms of number, strength, appropriateness.
8. Conduct trials with experienced lifeguards before opening the park to visitors and check for any faults.
9. Ensure sufficient lifeguards are at the waterslide start points and pools and are equipped with all the required resources.
10. Ensure that the curing period of the chemical substances applied during the pre-season maintenance is completed before letting the water out.

## Daily

1. Check the slide joints for any dirt. Apply joint filling substance if required before letting water into the slides.
2. Check the sliding surfaces for any cracks or elements which would disrupt the ride.
  - 2.1 Ensure that the entry platforms and pools are cleaned and hygiene is maintained.
  - 2.2 Randomly check for any loose nuts and bolts and tighten if any.
  - 2.3 Check for water leakage.
  - 2.4 Check the chemical structure and flow rate of the water.
  - 2.5 Check the condition of the riding tools like tubes, mats, and rafts.
  - 2.6 If possible, wash the waterslides every evening with non-chlorinated water. The waterslides have to be cleaned from the dirt and the oil accumulated during the day. Use Soft or/and non-scratching clothes and softeners during the cleaning of the intensive dirt.
  - 2.7 Cleaners should compulsorily wear non-scratching equipment's while walking inside the slides to clean them.

## Weekly

- 3.1 Ensure that all daily maintenance work is done.
- 3.2 Clean the strainers which are installed at the entrance of the pump.
- 3.3 Control the surface levels, water leakage and the metal construction as the nuts and bolts can loosen by the result of the dynamic loads.
- 3.4 Safety tips (pictographs) have to be placed such that they are readable and easily seen.

## Monthly

- 4.1 Ensure that all daily maintenance work is done.
- 4.2 Clean the calcification or scaling formed, if any on the riding surfaces.
- 4.3 All nuts, bolts and loose components to be tightened at the correct torque value.
- 4.4 Change the rusty nuts and bolts if any. Control the painted metal construction (for the painted metals).
- 4.5 Check and eliminate problems like slip hazards, slick surfaces, sharp or protruding objects, sharp edges, checking that fencing hasn't been damaged or removed.

## End of the Season

- 5.1 All waterslides are required to be controlled before the end of the season so that the repair works can be made before the new season starts.
- 5.2 Provisions to protect the fiberglass components of the waterslides from the exterior effects should be made by using tent or suitable coverings.
- 5.3 The waterslides have to be opened at least once for minimum 10 minutes letting the water to clean the dirt on them. Non riding surfaces are to be cleaned, too.
- 5.4 Use relevant protective chemical substance to protect the nuts and bolts from rusting.

# Footnotes

1. If required, this can be done by Arihant Industrial Corporation Ltd.
2. To restore the surfaces with corrosion that may occur in galvanized surfaces, we suggest using suitable paint of Akzonobel make.
3. You can use a mild detergent to clean dirt, grease and other residues on the side surface. Use it with a soft cloth.
4. Ensure that the waterslides are cleaned at the beginning of the season before starting operations. If the park is operating year round, then this process should be done at least twice a year.
5. We suggest using SILO01 – a sealant to prevent the slide joints from leaking.
6. Turn the power off during the cleaning and repair of the system, Maintenance and repair should be done by experts/qualified technicians. Water flow should be arranged as explained.
7. Do not buff the walking paths of the riders as it may create slippery surfaces, only buff the sliding surfaces.
8. The FRP and metal parts of the slide can be covered with suitable covering so that the slide is protected from any environmental harm like dust, dirt, sun rays, etc. hence increasing its life expectancy.
9. Control content of water (lime, chemical substances and etc.) to minimize the effects to sediment, stain and etc. This will help increase the life expectancy of the slides

*Please remember that life expectancy of the slides is dependent on maintenance.*

*The better you maintain the slide, the longer it will last.*

# Other

- Read all instructions carefully before starting the process and avoid inappropriate applications. Ensure that all kinds of occupational health and safety measures should be considered and applied against the dangers that may occur before and after the study.
- Arihant's **PERIODICAL MAINTENANCE MANUAL** is prepared to help our customers perform preventative maintenance to maximize the lifetime of their waterslides.
- Maintenance activity should be carried by qualified technician only.
- Please follow the rules mentioned in the book and read all the manuals, labels of the products that are recommended in this document.
- All rights and remedies of the products in the text are solely those of the product suppliers.
- Arihant can change/update any information stated without notifying. Please visit our website [www.arihantwaterslides.com](http://www.arihantwaterslides.com) for the latest information.

