



Our success stories

Arma soap and chemicals cooling towers refurbishment project



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Arma Soap & Chemicals

Receiving the working site

- We WaterWay have received two cooling towers on 25/1/2026.
- First one had 4 cells with 4 suction fans, the second had only 2 cells with 2 suction fans.
- Both towers were in a very bad condition so, we started working immediately.



Deassebling the towers

Started by unscrewing every part of the tower.

Removing the filling sheets.



Cleaning the place.

- Cleaning the residuals & precipitates resulted from the old sheets.



Preparing the NALCLEAN 68 PULV.

- What is it?
- Product name: Nalclean 68 PULV
- Form: Powder (pulverized)
- Manufacturer: NALCO, a company specialized in industrial water treatment chemicals.
- Uses
- It is used in industrial applications for cleaning and removing deposits such as calcium carbonate scale (lime scale) from:
 - Industrial pipelines
 - Heat exchangers
 - Low-pressure boilers
 - Industrial systems such as ventilation and mechanical equipment
- How it works
- Type: Acid-based product
- Works by dissolving and removing mineral scale deposits, especially hard water scale and solid salt buildup formed inside industrial equipment.



Washing tower cells from inside.

- Used the NALCLEAN 68 PULV to wash the inner walls of towers' cells



Sand blasting metal parts

- Professional sand blasting for the towers' accessories and sinks .



Repainting the sand-blasted items.

. Painted every Sand-blasted item & the cells' walls carefully, Using high material EPOXY paint.



Deep check up on the water pumps

- Our engineers had a deep check up on the pumps which lead to refurbishment for both pumps to get them working perfectly.



Reassembling towers

- As every single part of the tower got refurbished, It was time to reassemble everything as it was.
- We started by hanging the fans, then screwing every accessory back to its place.



Assembling filling sheets

- Since everything is ready, we started assembling the filling sheets in the most professional possible method.
- Used high material PVC Sheets we provided the perfect shape to ensure reliability.



Last finishes

- Since the project has come to an end, we started giving the last finishes by washing the outer surface of the cooling towers to improve the general appearance of the towers.
- Used NALCLEAN 68 PULV for this mission too.



Last finishes

- And finally, cleaning the work-site area and giving final touches to the project.



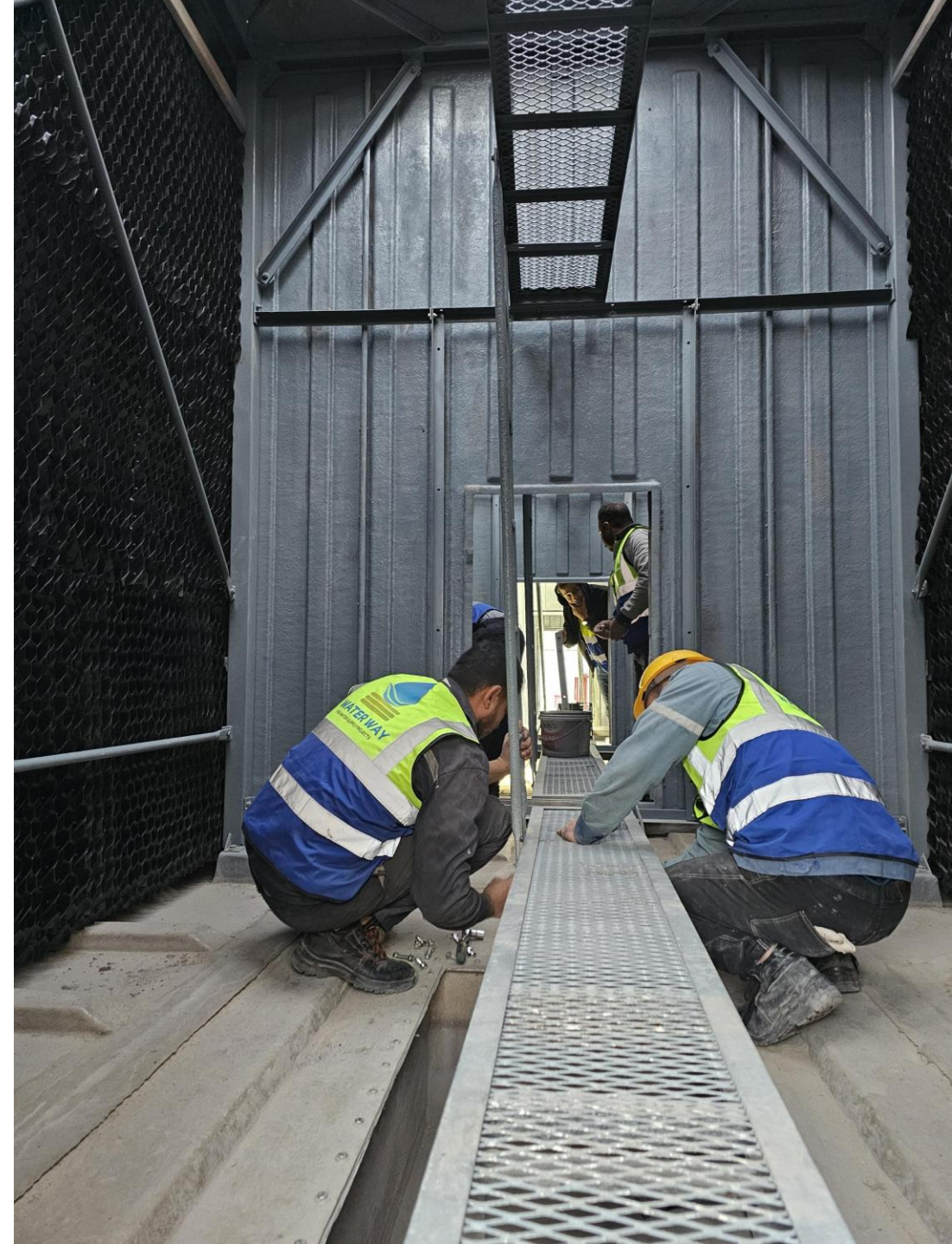
Project handover

- As we finished the project the most perfect way we could, we wanted to handover the site to the administrators better than we recieved, so we did.
- Project was handed over on Tuesday Feb 3rd 2026 at 3:00 AM.



Project results

- Cooling towers working in perfect condition .
- Clean and niche working area .





NALCO  **Water**
An Ecolab Company