# WATER SAVING PROJECTS 2016/2017 (Progress Report from 1/1/2017 until 8/11/2017)

<table>
<thead>
<tr>
<th>No</th>
<th>Section</th>
<th>Project Description</th>
<th>Person In-Charge</th>
<th>Implementation Time</th>
<th>Status</th>
<th>Expected Saving Per Month (m³)</th>
<th>Accumulated Water Saving November 2017 (m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Blasting</td>
<td>1. Re-use caustic recovery evaporated water for Minceria</td>
<td>SMi Chang</td>
<td>End July 2016</td>
<td>Completed</td>
<td>2,456</td>
<td>460</td>
</tr>
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<td></td>
<td></td>
<td>2. Re-use CSRF D1 last section washer water to front section</td>
<td>Aynas</td>
<td>10-May-16</td>
<td>Completed</td>
<td>1,491</td>
<td>420</td>
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<tr>
<td></td>
<td></td>
<td>3. Re-use CSRF last section water to second section last washer</td>
<td>Aynas</td>
<td>August 2016 (Implemented)</td>
<td>Completed</td>
<td>1,056</td>
<td>265</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Repair leaking valves at CSRF &amp; MF</td>
<td>Aynas</td>
<td>15-Sep-16</td>
<td>Continuous Process</td>
<td>Intangible</td>
<td>Intangible</td>
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<td></td>
<td></td>
<td>5. Reuse water for CSRF D1 steam spray system</td>
<td>SMi Chang</td>
<td>July 2016</td>
<td>Completed</td>
<td>183</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6. Auto watering for CSRF D1 and CSRF D4</td>
<td>Aynas / SMi Lou</td>
<td>August 2016 (Implemented)</td>
<td>Completed</td>
<td>Intangible</td>
<td>Intangible</td>
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<td></td>
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<td>7. Auto watering for manual floater cleaning at Minceria</td>
<td>SMi Chang / Aynas</td>
<td>December 2016</td>
<td>Completed</td>
<td>Intangible</td>
<td>Intangible</td>
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<tr>
<td></td>
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<td>8. Re-use pond water for paper drawing at SF-02</td>
<td>Aynas / Aynas</td>
<td>End January 2017</td>
<td>Completed</td>
<td>Intangible</td>
<td>Intangible</td>
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<td></td>
<td></td>
<td>9. Re-use pond water for floor cleaning at chemical preparation area</td>
<td>SMi Chang / SF-06</td>
<td>March 2017</td>
<td>Completed</td>
<td>Intangible</td>
<td>Intangible</td>
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<td></td>
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<td>10. Re-use pond water for floor cleaning at machine area</td>
<td>SF-11 / SMi Chang</td>
<td>January 2017</td>
<td>Completed</td>
<td>Intangible</td>
<td>Intangible</td>
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<td>11. Revised flow rate for machine wash for wash line no 1 and 3 at CSRF D4</td>
<td>Junior / Fadil</td>
<td>August 2017</td>
<td>Completed</td>
<td>200</td>
<td>69</td>
</tr>
</tbody>
</table>

2. Dyehouse
1. Install low-flow heads on pump water (PBSD#1 & 2nd valve) | Johnny | End August 2016 | Completed | 45 | 10 |
2. Re-use water from last valve of PBSD to make up 2 of PBSD | CM Tai / SMi Chang | May 2016 (Trial) | Completed | - | - |
3. Reduce flow rate for light weight for pump extent by 25% for PBSD & PBD (20% lighter color and light weight) | CM Tai | May - June 2016 | Completed | 350 | 60 |
4. Reuse boiler pond water for HR cooling service (cleaning) | CM Tai | June 2016 | Completed | Intangible | Intangible |
5. Auto watering for PBSD wash heads | CM Tai / SF-02 | Mid October 2016 | Completed | 400 | 100 |
6. Auto watering for water use at PBSD, PBD, PBD4 | CM Tai / SF-02 | November 2016 | Completed | Intangible | Intangible |
7. Repair leaking water at pump station | CM Tai | December 2016 | Continuous Process | Intangible | Intangible |
8. Re-use pond water for floor cleaning before reactive area | SMi Chang / CM Tai | February 2017 | Completed | Intangible | Intangible |
9. Improve Water Savings of SW 455 UP above finishing by less temperature mixing area | CM Tai / Fadil | August 2017 | Completed | 80 | 25 |
10. Use water from boiler pond for pad steam floor and machine cleaning | CM Tai / Fadil / Rudi | October 2017 | Completed | 950 | 220 |
11. Use water from boiler pond for pad for dry floor and machine cleaning | CM Tai / Fadil / Rudi | October 2017 | Completed | 950 | 220 |
12. Use water from boiler pond for Dryhose Chemical Preparation area cleaning | CM Tai / Fadil / Rudi | October 2017 | Completed | 16 | 4 |

3. Flockshop
1. Commence to stop hardening | Nafiq | May 2016 | Completed | 400 | 65 |
2. Reduce two step processes (oven dry) | Nafiq | June 2016 | Completed | 400 | 100 |
3. Recycle boiler pond water for cleaning faucet | SMi Chang | End June 2016 | Completed | Intangible | Intangible |
4. Recycle boiler pond water for cleaning PM cooling service area | SMi Chang | November 2016 | Completed | Intangible | Intangible |
5. Reduce 2 step process by 8% of CSA second padding | SMi Chang / Nafiq | October 2017 | Under Study | Intangible | Intangible |
6. Install mixer for auto closing shower valve to finishing auto rower | Nafiq / Padi / UV | October 2017 | In progress | 280 | 0 |

4. Printing
1. Use water from boiler pond for floor cleaning | MM Chang | October 2016 | Completed | Intangible | Intangible |

5. General
1. Farrow (Farrowing pipe from A & B Stock to rear area | SMi Chang | June 2016 | Completed | Intangible | Intangible |
2. Re-use treated water for sanitation purpose at dressing plant | Suhlan, Suzan | June 2016 | Completed | 950 | 150 |
3. Use-water for boiler cleaning (Production, Total, and Hot Water boilers) | SMi Chang | June 2016 | Completed | Intangible | Intangible |
4. Use treated water for sheeting line to sheeting heater at ASMI | SMi Chang | June 2016 | Completed | Intangible | Intangible |
5. Recover Ca CO3 RO back wash water from Multi-media & carbon filter for production | SMi Chang | October 2016 | Completed | 780 | 150 |
6. Stop dyeing process at Dyehouse (Painting Dyeing Project) | SMi Chang / CM Tai / Cihay, Zamri | October 2017 | In progress | 1700 | 0 |
7. Reuse of House water from organ pipe at Blowing Sections for CRF Machine | Jaya Pali, Suhlan, SMi Chang / Jaya Pali | October 2017 | Under Study | Under Study | 0 |
8. RO water product plant boils water reserve back to water reservoir | John | June 2017 | Completed | 6000 | 1300 |

**Total Expected Water Saving per month (m³):** 19,116  
**Total Accumulated Water Saving November 2017 (m³):** 3,989