

| WATER SAVING PROJECTS 2016/2017 (Progress Report from 28/9/2017 until 31/10/2017) |                        |  |  |                           |                    |   |   |
|---|------------------------|--|--|---------------------------|--------------------|---|---|
| No  | Section                | Projects   | Person In-Charge                                 | Implementation Date       | Status             | Expected Saving Per Month (m <sup>3</sup> ) | Accumulated Water Saving October 2017 (m <sup>3</sup> ) |
| 1   | Bleaching              | 1) Re-use caustic recovery evaporated water for Mercerize  | MH Cheng   | End July 2016             | Completed          | 2,456                                       | 1,896   |
|   |                        | 2) Re-use CBR D1 last section washer water to front section  | Azman  | 10-May-16                 | Completed          | 1,491                                       | 2,015   |
|   |                        | 3) Re-use SSB last section washer water to second section last washer  | Azman  | August 2016 (Implemented) | Completed          | 1,056                                       | 875   |
|   |                        | 4) Repair leaking washers at CBR & MZ  | Azman  | 10-May-16                 | Continuous Process | Intangible                                  | Intangible  |
|   |                        | 5) Reuse water for CBR D1 steamer conveyor system  | MH Cheng   | July 2016                 | Completed          | 138   | 160   |
|   |                        | 6) Auto showering for CBR D1 and CBR D4  | Azman / BH Lee                                   | August 2016 (Implemented) | Completed          | Intangible                                  | Intangible  |
|   |                        | 7) Auto showering for stenter filter cleaning at mercerize   | Azman / BH Lee                                   | December 2016             | Completed          | Intangible                                  | Intangible  |
|   |                        | 8) Re-use pond water for cyclone at CBR-D2   | Azman / MH Cheng                                 | End January 2017          | Completed          | Intangible                                  | Intangible  |
|   |                        | 9) Re-use pond water for floor cleaning at chemical preparation area   | MH Cheng / Rodzi                                 | March 2017                | Completed          | Intangible                                  | Intangible  |
|   |                        | 10) Re-use pond water for floor cleaning at machine site   | Azman/MH Cheng                                   | January 2017              | Completed          | Intangible                                  | Intangible  |
|   |                        | 11) Revised flow rate 1st section washer for wash box no 1 and 3 at CBR D4   | Joanne / Fadzil                                  | August 2017               | Completed          | 200   | 220   |
| 2   | Dyehouse               | 1) Install dummy inside pad steam washer (PSD3)(1st & 2nd washer)  | Johnny   | End August 2016           | Completed          | 43  | 50  |
|   |                        |  | Atif   | May 2016 (Test)           | Completed          | -   | -   |
|   |                        | 2) Re-use water from last washers of PSD3 to washer no 2 of PSD3   | CM Tai / MH Cheng                                | August 2016 (Implemented) | Completed          | 1,050                                       | 1,170   |
|   |                        | 3) Reduce flow rate for light weight for pad steam by 20 % for PSD3 & PSD1 (DV/DR) (light colour and light weight) | CM Tai   | May - June 2016           | Completed          | 336   | 250   |
|   |                        | 4) Reuse Boiler pond water for DH colour service (cleaning)  | MH Cheng   | End June 2016             | Completed          | Intangible                                  | Intangible  |
|   |                        | 5) Auto showering for PSD4 wash boxes  | CM Tai / BH Lee                                  | Mid October 2016          | Completed          | 400   | 370   |
|   |                        | 6) Auto showering for water seal at PSD2, PSD3 & PSD4  | CM Tai / BH Lee                                  | November 2016             | Completed          | Intangible                                  | Intangible  |
|   |                        | 7) Repair leaking washer at pad steam  | CM Tai   | December 2016             | Continuous Process | Intangible                                  | Intangible  |
|   |                        | 8) Re-use pond water for floor cleaning at auto reactive area  | MH Cheng / CM Tai                                | February 2017             | Completed          | Intangible                                  | Intangible  |
|   |                        | 9) Improve Washing Fastness of SV 475 UP DA Finish by low temperature curing resin                                 | CM Tai / Joanne                                  | August 2017               | Completed          | 80  | 90  |
|   |                        | 10) Use water from boiler pond for pad steam floor and machine cleaning  | CM Tai / Zamri / Rodzi                           | October 2017              | Completed          | 950   | 200   |
|   |                        | 11) Use water from boiler pond for pad dry floor and machine cleaning  | CM Tai / Zamri / Rodzi                           | October 2017              | Completed          | 950   | 200   |
| 12) Use water from boiler pond for Dyehouse Chemical Preparation area cleaning    | CM Tai / Zamri / Rodzi | October 2017   | Completed  | 16                        | 4                  |   |   |
| 3   | Finishing              | 1) Continue to skip sanforize  | Najib  | May 2016                  | Completed          | 400   | 490   |
|   |                        | 2) Reduce two step processes (yarn dye)  | Najib  | June 2016                 | Completed          | 400   | 400   |
|   |                        | 3) Recycle boiler pond water for cleaning sanforize  | MH Cheng   | End June 2016             | Completed          | Intangible                                  | Intangible  |
|   |                        | 4) Recycle boiler pond water for cleaning Fin colour service area  | MH Cheng   | November 2016             | Completed          | Intangible                                  | Intangible  |
|   |                        | 5) Reduce 2 step process by step OBA second padding  | MH Cheng / Najib                                 | October 2017              | Under Study        | Intangible                                  | Intangible  |
|   |                        | 6) Install timer for auto cleaning shower valve at finishing auto dispenser  | Najib / Faizal / BH Lee                          | October 2017              | In progress        | 280   | 0   |
| 4   | Printing               | 1) Use water from boiler pond for floor cleaning   | MH Cheng   | October 2016              | Completed          | Intangible                                  | Intangible  |
| 5   | General                | 1) Extend Gardening pipe from A & B block to car park area   | MH Cheng   | June 2016                 | Completed          | Intangible                                  | Intangible  |
|   |                        | 2) Re-use treated water for polymer preparation at dewatering plant  | Selvakumar                                       | June 2016                 | Completed          | 390   | 450   |
|   |                        | 3) Use waste water for toilet cleaning ( Production Toilet and Jet Dye toilet)                                     | MH Cheng   | End June 2016             | Completed          | Intangible                                  | Intangible  |
|   |                        | 4) Use treated water to shoot the floating sludge at ASM1  | MH Cheng   | End June 2016             | Completed          | Intangible                                  | Intangible  |
|   |                        | 5) Re-used Co Gen RO back wash water from Multi media & carbon filter for production                               | MH Cheng   | October 2016              | Completed          | 780   | 850   |
|   |                        | 6) Skip dyeing process at Dyehouse (Pigment Dyeing Project)  | Joanne / Najib / CM Tai / Cheah / Zamri          | October 2017              | In progress        | 1700  | 10  |
|   |                        | 7) Reuse of blower water from Cogen Plant at Bleaching Section for CBR Machine                                     | Jaya Paul / Selvakumar / MH Cheng / John / Araeb | October 2017              | Under Study        | Under Study                                 | 0   |
|   |                        | 8) RO water product plant Brine water recover back to water reservoir  | John   | June 2017                 | Completed          | 6000  | 6500  |
| <b>Total Expected Water Saving per moth (m<sup>3</sup>) =</b>                     |                        |  |  |                           |                    | <b>19,116</b>                               |   |
| <b>Total Accumulated Water Saving October 2017 (m<sup>3</sup>) =</b>              |                        |  |  |                           |                    |   | <b>16,200</b>   |