

Appendix B: Raw data tables

Table B1 Monthly achieved efficiency % (August – October 2025)

Achieved Efficiency %									
Date wise Sl No	AR-TEX Composite with Traffic light process control			NR Knitting Mills Ltd with Traffic light process control.			NRG Knit Composite without process control		
	August	September	October	August	September	October	August	September	October
1	61.62%	63.28%	66.26%	53.23%	48.90%	48.90%	56.11%	61.25%	61.25%
2	62.67%	62.88%	67.23%	53.70%	49.10%	49.10%	55.33%	61.23%	61.23%
3	67.58%	67.25%	67.18%	52.10%	49.94%	49.94%	58.99%	61.30%	61.30%
4	65.12%	67.66%	63.88%	51.90%	51.72%	51.72%	62.33%	57.25%	57.25%
5	65.10%	67.53%	65.36%	51.40%	54.20%	54.20%	63.88%	61.36%	61.36%
6	65.30%	66.99%	67.17%	52.90%	55.39%	55.39%	61.99%	60.25%	60.25%
7	67.01%	65.89%	68.25%	53.25%	55.10%	55.10%	63.36%	54.90%	54.90%
8	69.84%	66.01%	68.26%	53.12%	54.50%	54.50%	61.43%	62.44%	62.44%
9	66.99%	66.30%	72.52%	52.10%	54.37%	54.37%	61.19%	59.31%	59.31%
10	66.30%	66.35%	70.72%	51.60%	54.16%	54.16%	61.25%	59.99%	59.99%
11	66.33%	66.00%	71.23%	52.00%	54.38%	54.38%	57.25%	61.23%	61.23%
12	65.68%	66.01%	73.07%	52.35%	51.70%	51.70%	57.28%	57.55%	57.55%
13	67.33%	63.45%	72.95%	51.21%	51.24%	51.24%	58.20%	52.99%	52.99%
14	65.98%	63.45%	73.34%	54.13%	51.63%	51.63%	57.30%	61.25%	61.25%
15	67.90%	66.12%	70.00%	54.00%	52.80%	52.80%	59.30%	58.50%	58.50%
16	66.00%	65.66%	75.42%	54.41%	51.70%	51.70%	59.30%	57.30%	57.30%
17	67.75%	64.36%	74.75%	54.90%	51.60%	51.60%	57.12%	55.20%	55.20%
18	65.88%	62.33%	68.97%	54.61%	52.13%	52.13%	58.30%	57.35%	57.35%
19	68.99%	62.00%	69.48%	51.00%	52.46%	52.46%	59.20%	61.63%	61.63%
20	66.00%	64.00%	74.30%	51.13%	53.10%	53.10%	56.21%	59.31%	59.31%
21	68.55%	67.30%	74.44%	50.90%	53.00%	53.00%	63.10%	57.88%	57.88%
22	67.73%	67.01%	75.00%	51.23%	53.42%	53.42%	59.30%	60.30%	60.30%
23	67.67%	67.55%	75.00%	50.11%	53.28%	53.28%	59.20%	61.80%	61.80%
24	68.61%	69.99%	75.50%	49.25%	53.90%	53.90%	61.25%	57.30%	57.30%

Group 1: AR-TEX (TLS)	Group 2: NRK (TLS)		Group 3: NRG Knit (No TLS)						
64.06%	50.26%		57.26%						
66.00%	52.78%		59.37%						
70.96%	52.78%		59.37%						
25	67.61%	70.30%	70.00%	50.25%	54.10%	54.10%	60.50%	63.33%	63.33%
26	0.00%	70.33%	74.66%	0.00%	54.58%	54.58%	0.00%	61.38%	61.38%
Average	64.06%	66.00%	70.96%	50.26%	52.78%	52.78%	57.26%	59.37%	59.37%

Note: Weekend days are not included in the Sequential Day (SI No) count.

Table B2 Monthly average achieved efficiency % by factory group

Group 1: AR-TEX (TLS)	Group 2: NRK (TLS)	Group 3: NRG Knit (No TLS)
64.06%	50.26%	57.26%
66.00%	52.78%	59.37%
70.96%	52.78%	59.37%

Table B2 Two-Factor ANOVA without replication results for line efficiency

Anova: Two-Factor Without Replication						
<i>SUMMARY</i>	<i>Count</i>	<i>Sum</i>	<i>Average</i>	<i>Variance</i>		
Row 1	3	1.715765385	0.571921795	0.004760249		
Row 2	3	1.781530769	0.59384359	0.004366179		
Row 3	3	1.831123077	0.610374359	0.008466827		
Column 1	3	2.010184615	0.670061538	0.001266176		
Column 2	3	1.5583	0.519433333	0.000212327		
Column 3	3	1.759934615	0.586644872	0.000148674		
ANOVA						
<i>Source of Variation</i>	<i>SS</i>	<i>df</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>	<i>F crit</i>
Rows	0.002232	2	0.001116216	4.369083349	0.098607	6.94427191
Columns	0.034165	2	0.017082294	66.86339803	0.000843	6.94427191
Error	0.001022	4	0.00025548			
Total	0.037419	8				