



CASE STUDY & INSIGHTS FROM OUR WORK

Operations Transformation for a Carpet Yarns (BCF Yarns) Manufacturer

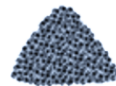
 **Key Challenges & Insights**



Volatile polymer pricing + Long lead time



Creel size constraints



Performance highly dependent on RM quality

With increasing consumer preferences for aesthetically improved designs, textures and colours the complexity for BCF yarns has been ever increasing. Other parameters which impacted productivity & downgrades were

- Multiple raw material inputs- PA6, PP and their unpredictable behaviour and the impact on yarn breakages
- Master batches quality and impact of colour changes
- Variation in planned activities-pack changes, winder changes etc
- Planning & Shade Sequencing impacted downgrades & productivity



How we helped

- Developed OEE based '**True Utilization**' metric and Utilisation reconciliation method
- Improved Quality Control of Master batches to reduce shade failures and strength changes (LDR%)
- Improved Winder reliability by implementing reliability based maintenance practices
- Standardised all online & offline activities to optimize downtime
- Reduction in pack chocking instances, identification and correction of Master batches with risk of clogging



Our Impact

4%

BCF Manufacturing Line Utilisation

2.5%

FDY Utilization Improvement

28%

Downgrade Reduction

40%

LDR & Shade failures reduced