Certificate Course in Supervisory skilling programme on Jute Spinning Preparatory (S-1)

Duration: 560 hours

Domain Skill: 500 hours

Section	Batching to Finisher drawing stage	Contact Hours
	of operations.	Theory 50 Practical 120
	• Basic concept of different quality of jute processed in breaker, inter card, finisher card and teaser card	
	• Basic idea of draft, Draft Change pinion and sliver weight.	
	• Basic Idea of Lead, its importance & difference with Draft.	
	Basic idea of doubling and its importance in carding process	
	• Important check points regarding carding machine and carding process control	
	Practical demonstration.	
	 Machine operation, machine safety, 	
	 Identification of machine parts, 	
	 Drawing of gearing diagram and calculations – Draft, draft constant, speed ratios, lead (%) etc. 	
	• Carding Calculations – machine parameters	
	Production calculation	
	• Quality control in Carding – sample size, testing procedure, calculation, etc.	
	• Card waste (Process waste in different sections)& control of wastage	
	• Do's and Don'ts of Carding operation	
	Machine Balancing – It's importance & methods	
	Objectives of drawing	
Drawing	• Basic mechanism of different types of jute drawing frames and their operation and path of the sliver in these drawing machines.	
	• Basic idea of doubling and drafting. Importance of doubling plate.Concept of best draft and worst draft and its use in drawing machine	
	• General information about draft of different drawing machine, draft constant, draft change pinion and sliver weight& its calculations.	
	• Fibre floating and its control.	
	Can Reversal Mechanism, its importance	Theory
	• Calculation of production and efficiency of the drawing machine.	40 Practical 100
	• Wastages and their control in drawing department.	

Section	Batching to Finisher drawing stage	Contact Hours
	Practical demonstration.	
	 Identification of machine parts 	
	 Machine operation, machine safety 	
	 Drawing of gearing diagram and calculations –Draft, draft constant, speed ratios, faller drops/min, lead (%) etc. 	
	Do's and Don'ts of Drawing operation	
	• Machine Balancing – It's importance & methods	
Testing and Quality Control	Concept of Quality and Statistical Quality Control	
	Role of Sampling for testing	Theory 20
	Testing standard and SOP of test method	
	• Fibre Testing – strength, fineness, defects, colour, MR	Practical 30
	• Sliver Testing – Sliver Weight and its CV% at different stages	
Basic Computer Skill	• Basic concept of computer application and its necessity in jute mill	
	Introduction of MS Office	Theory
	 Use of MS Word 	6
	• Use of MS Excel	Practical 24
	 Use of MS PowerPoint 	
	• Internet and E-mail, procedures, use of apps etc.	
Soft Skill	• Basic concept about the man machine ratio and hands complements	Theory 5
	• Fire and industrial safety management	Practical 5
Interactive Session / Mill Practice		
Total		