REPORT ON RAVALI SPINNING MILL

INTRODUCTION: M/s Ravali Spinners Private Limited started 2005 with 16800 spindles. Latest machinery was imported from Japan and Europe. At present the company is operating 1,13,520 spindles with almost all the value added products like Slub yarn, Lyca yarn as well as combed variety etc. Spinning is the conversion of fibers into yarn. These fibers can be natural fibers (cotton) or manmade fibers (polyester). Spinning also entails production of manmade filament yarn (yarn that is not made from fibers). Final product of spinning is yarn. Cotton value chain starts from Ginning that adds value to it by separating cotton from seed and impurities. Spinning is the foundation process and all the subsequent value additions i.e. Weaving, Knitting, Processing, Garments and Made ups, depend upon it. Any variation in quality of spinning product directly affects the entire value chain.
MANUFACTURING:

Spinning process is shown in the flowchart given below. Cotton which is in the form of bales is fed to blow room followed by various operations like carding and combing depending on the requirement. The final yarn of required specifications are met through these operations and winded. Cotton mixing --blow room -- carding /combing -- drawing -- ring frames—winding— carded yarn.. also from.. carding – open end – open end yarn.

The Plant & Machinery required for the Spinning Mill process for manufacturing yarn of different counts are blow room machinery, metal detection system, spark diversion system, carding machines, card accessories, draw frame (Finisher & Breaker), speed frame, combers, ring frame, electrical infrastructure, yarn testing instruments, humidification and waste collection system and automatic cone winding machine etc.
The investment for setting up a spinning mill with a capacity of 14400 spindles works out to Rs. 26.90 Crores and the break up of the cost is tabulated below. The land requirement will be around 2.5 acres. The Preliminary & Pre-operative expense works out to Rs 1.36 crores. Plant & Machinery including installation, erecting & transportation charges are of 16.91 Crores. Buildings and civil works are estimated to be 6.55 Crores. Errection & Transportation and electricity deposits have been considered in the project cost. Margin money for working capital is estimated to be 1.60 Crores.

The total number of spindles in four units are 101520.