



HIGHER EDUCATION SCIENCE AND TECHNOLOGY



Internship Logbook

Student Name: OKULU GIDEON

Month: JUNE* (one)

Target	Achievements	Challenges	Lessons Learnt
<p>Week 1</p> <ul style="list-style-type: none"> ✓ To undergo orientation on the organization's policies and know various departments. ✓ Understand the mode of blow room machinery. ✓ To study the uses of a carding machine ✓ Carry out quality control checks in the preparatory section 	<ul style="list-style-type: none"> ✓ Understood the safety and health policies within the plant and came to know that the company is divided into five departments that is; spinning, weaving, wet processing, and engineering headed by departmental managers ✓ Understood that the blow machine uses hopper feeds for fiber bale opening which is run by the motor. ✓ carried out Cleaning or elimination of impurities, Reduction of neps, Elimination of short fibres and Fibre orientation or alignment and Sliver formation on the carding machine ✓ carried out staple fiber length testing and fiber length testing in quality control checks. 	<ul style="list-style-type: none"> ✓ Meeting tough people who were not willing to give the information I needed. ✓ Meeting people who hardly understood English and hardly new the explanation of mode of operation of the blow room. ✓ Most components are covered so there was difficulty in viewing them. ✓ Difficulty in measuring the real strength of the fiber 	<ul style="list-style-type: none"> ✓ How to interact with people of different attitudes without offending them. ✓ A cute feed is used instead of lap formation in the blow room to avoid fibre wastage ✓ There are two types of the cards; Feeding material in form of scutcher lap and the Flock feed system. ✓ Fibers are of different length and strength.
<p>Week 2</p> <ul style="list-style-type: none"> ✓ Understand the mode of operation of a carding machine ✓ To Carry out maintenance 	<ul style="list-style-type: none"> ✓ Managed to grasp the silver formation on the carding machine out of the almost individual fibers from blow room. ✓ Managed to carry out the machine setting between 	<ul style="list-style-type: none"> ✓ Difficulty in understanding the setting of the machine. ✓ The setting calculations 	<ul style="list-style-type: none"> ✓ The setting between cylinder and doffer is the closest setting in the card. ✓ Draft between the 2rd

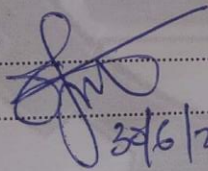
<p>tasks on a carding machine</p> <ul style="list-style-type: none"> ✓ Understand the uses and various components of a draw frame machine ✓ Carry out maintenance tasks on the draw frame machine 	<p>the linker-in and the doffer</p> <ul style="list-style-type: none"> ✓ These machines are used for doubling and bending of different slivers that is cotton and polyester which I carried out. ✓ managed to service the feeder rack, of the draw frame machine 	<p>were too challenging to grasp</p> <ul style="list-style-type: none"> ✓ unable to access their user manual for this machine ✓ Difficulty in understanding the setting of the machine 	<p>and 3rd rollers is called break draft.</p> <ul style="list-style-type: none"> ✓ Understood the setting of the machine
<p>Week 3</p> <ul style="list-style-type: none"> ✓ Study the uses of a speed frame machine ✓ To understand the operation principle of a Ring frame machine ✓ Understand different components and their uses on Ring frame machine ✓ Do maintenance tasks on the Ring frame machine 	<ul style="list-style-type: none"> ✓ This is used for traversing the bobbin rail, To transfer the cone drum belt, Transfer of cone drum belt. ✓ Fibre material is supplied to the ring-spinning machine in form of roving; a drafting unit reduces the fibre mass of the roving. The twist is inserted by means of rotating spindle, the twist moves backwards and reaches the fibres leaving the drafting unit. ✓ Ring frame has got drafting rollers, spindle, attenuated roving, thread guides, anti-ballooning ring, traveller, ring ray, rings, thread on the bobbin and spindles. ✓ I was able to fix yarn separators, travellers, and participated in setting of the ring ray together with the maintenance group 	<ul style="list-style-type: none"> ✓ Too much of the flying fibers (tuffs) which could enter to the open body parts like ears nose eyes etc ✓ Too much of the flying fibers (tuffs) which could enter to the open body parts like ears nose eyes etc ✓ The machine runs at very high speed making it hard for uses of its different individual elements to be studied easily ✓ Fixing travelers and ring ray setting was too challenging 	<ul style="list-style-type: none"> ✓ The movement of vertical shaft may be continuous due to dead weight ✓ The machine contains in total 1008 spindle which are driven by spindle taps ✓ The up and down ward movement of the ring ray is provided by the shaft ✓ The settings are chosen to reduce yarn hairiness and the risk of glazing or melting the fibre.
<p>Week 4</p> <ul style="list-style-type: none"> ✓ To understand the operation 	<ul style="list-style-type: none"> ✓ It winds yarn on bigger cones for making a 	<ul style="list-style-type: none"> ✓ Difficulty in understanding 	<ul style="list-style-type: none"> ✓ Understood how smaller

<p>principle of a winding machine</p> <ul style="list-style-type: none"> ✓ Understand different components of a winding machine and their uses on the machine ✓ Do maintenance tasks on the winding machine ✓ Conduct quality assurance of the products which is done in the spinning department 	<p>warpers beam by the help of the transfer lever, gripper arm and sanction arm which pick the yarn and take it to the splicing unit. This unit opens the yarn and joins it together. Winding then occurs by continuous rotation of the drum.</p> <ul style="list-style-type: none"> ✓ This machine has got splicing unit, waxing unit, levers, suction pipes, gripper arm and the grilling unit ✓ I carried out maintenance on the splicing unit of the machine and observed its components i.e. pressure tubes and cutter with guide from technicians ✓ Managed to carry out fabric strength testing using a fabric strength tester. And also measured the sliver weight of carding and draw frame machines also carried out colour matching on the spectrophotometer 	<p>the setting of the machine.</p> <ul style="list-style-type: none"> ✓ Most components are covered so there was difficulty in viewing them. ✓ No machine manual provided ✓ Difficulty in interpreting the CIE lab values 	<p>bobbins in the magazine is transferred to the drum to form a packages</p> <ul style="list-style-type: none"> ✓ The splicing unit helps in smooth knotting of the yarns ✓ Maintenance is done daily, weekly, monthly, semiannually and annual ✓ Spectrophotometer colour matching machine measure different parameters of the fabric like strength, colour lightness, etc
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Supervisors Comment:

He is hardworking and has interest in learning new ideas

Signature and stamp:



Supervisors name:

30/6/2017