HIGHER EDUCATION SCIENCE AND TECHNOLOGY

Internship Logbook

Student Name: BANOBA BRIAN

Month: JULY

Target	Achievements	Challenges	Lessons Learnt
➢ Setting out of column bases	➢ I was able to successfully set out the bases	➢ The whole exercise was tiresome and daunting	○ The whole process involved in setting out column bases
➢ Excavation of column bases	➢ A total of 8 column bases were excavated	➢ The soils on site were weak hence the excavations were collapsing	➢ The simple tools used for excavation. ➢ The different methods of supporting the sides of excavation
➢ Form work for the column bases	➢ Formwork for 8 bases was timely completed before casting	➢ There was no major challenge with his box type of formwork	➢ I learnt on how to coordinate different tasks of steelwork, formwork and casting in the column bases
➢ Steel work for the column bases	➢ I successfully fixed the reinforcement bars to the required specifications	➢ Bending the hooks of 20mm diameter bars was hard	➢ I was able to learn on how to use a bar bending schedule. ➢ I learnt how to align the reinforcement in a column base
➢ Casting of column bases	➢ Concrete was cast in all the excavated bases	➢ The necessity to properly vibrate the concrete while taking care not to displace the reinforcement was challenging	➢ I learnt all precautions taken to ensure quality when mixing concrete ➢ I learnt how to come up with the cost of a unit of concrete
➢ Curing of the column bases	➢ All the cast column bases were cured	➢ The temperatures where very high hence more water was used for curing	➢ I learnt the different methods used for curing concrete

	with water		
❖ Casting of ground beams	❖ Different stub columns where linked together with ground beams	❖ Making formwork for these beams was the main challenge	❖ I learnt that the main purpose of the ground beam is for stability of the structure during seismic action like earthquakes
❖ Placement of Hardcore for ground slab	❖ This activity was successfully conducted	❖ The hardcore was hard to carry and also to split into smaller boulders	❖ I learnt that the hardcore is to prevent direct action of moisture from the ground to the ground floor
❖ Blinding	❖ Both sand and murum were used for this activity	❖ There was no major challenge with this activity	❖ I learnt that blinding helps prevent the hardcore from damaging the damp proof membrane
❖ Casting of Over site concrete	❖ -Concrete of mix 1:3:6 was used to cast the ground floor concrete	❖ It was a challenging activity because concrete was even cast at night	❖ I was equipped with more knowledge on mixing and casting of concrete
❖ Setting and fixing of kickers	❖ Kickers were made with the same class of concrete for the columns	❖ They are hard to make since the thickness is very small	❖ I learnt that these are used when fixing formwork for the columns
❖ Fixing steel for columns	❖ Positioning of reinforcement as per drawings and specifications was done successfully	❖ The necessity to properly vibrate the concrete while taking care not to displace the reinforcement was challenging	❖ I was able to learn on how to use a bar bending schedule. ❖ I learnt how to align the reinforcement in a column
❖ Making	❖ Accurate and	❖ -It was challenging to use a	❖ Accurate estimation of the quantity of timber

formwork for columns	timely completion of the task of setting out of formwork was successfully done	plumb bob to properly align the formwork in order to maintain the verticality of the columns	required for formwork was learnt on this activity
❖ Mixing, casting and curing concrete for columns	❖ Casting of concrete was successfully done	❖ -Placing of concrete with pans was kind of tiresome	❖ More knowledge on estimation of quantity and unit cost of concrete was learnt
❖ Striking off of formwork from columns	❖ This was done after the concrete had set properly	❖ It was a challenging activity since timber formwork was damaged during striking off	❖ I learnt that the surface of the formwork should be treated with oil in order to make the process of striking off easy.
❖ Setting out for beams and first floor slabs.	❖ Setting levels for the beams and slab was effectively done	❖ It was challenging to use a water level as it needed much care to avoid bubbles forming in the tube while setting out the levels	❖ I learnt how to use a water level to set out levels ❖ Aligning beams and the deck of the first floor slab using strings and square was successfully done

Supervisors Comment:

.....He is a promising student and fast learner.....

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Signature:

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SWAN CONTRACTORS LTD
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P.O. BOX 74504, KAMPALA