



**Ingenieure  
ohne Grenzen**

## **Ingenieure ohne Grenzen e.V.**

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### **Projekt in Ruanda (RWA-IO07) Project in Rwanda (RWA-IOG07)**

#### **Wochenbericht 3 / 37. KW weekly report No 3 / calendar week 37**

Woche von 12.09.2011 bis 18.09.2011  
*week from 12.08.2011 to 18.09.2011*

Berichterstatter / *author*: Sebastian Lübke (Projektleiter / *project leader*)

#### **1. Sicherheitslage / *security situation***

The security environment is stable and secure.

#### **2. Laufende Projekte / *current projects***

RWA-IOG 07 Bridge Building Seminar 2011

Monday, September 12<sup>th</sup>:

At the first day of the seminar of this week the whole class made a field trip to the bridge sites at Nyagisenye and Kirambo. For many students it has been the first time to actually see a suspension type bridge. By visiting the different bridge types and analyzing their structural behavior, the students could deepen their knowledge gained from previous classwork of the seminar. Additionally the students worked with Sebastian Lübke and Christoph Winkler on a maintenance check up for the Nyagisenye suspension bridge, the report of this check up has been transferred to the EWB bridge building chapter via e-Mail at September 13<sup>th</sup> (in German language).

Tuesday, September 13<sup>th</sup>:

This day the students met at KIST for further class work. The chapter of construction management and cost estimation was discussed during class. Especially the construction management chapter prepared the students for the next days field trip. In the afternoon the students continued to start working on their bridge design task, by designing different alternative bridges for their given sites and discussed about their advantages and disadvantages. At the end each group found a general bridge type design that will be further worked on.



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Wednesday, September 14<sup>th</sup>:

On Wednesday the class made a field trip to the ongoing construction site at Vunga (see RWA-IOG08). Christoph Winkler was already there and introduced the students into the construction management of this site. Partly it has been the first time for the students to visit such a construction site. The special problems with structural behaviour of this suspended type of bridge could be discussed in great detail.

Thursday, September 15<sup>th</sup>:

In the morning the students from the 2<sup>nd</sup> could not participate, for they had to perform a surveying camp. During this time, the students of the 3<sup>rd</sup> year were introduced how to predimension a cable stayed bridge. In the beginning of the afternoon the maintenance chapter has been discussed with all students. For the students did already practically work on that topic on the Monday field trip this chapter could be discussed in great detail and with many discussions. After this the students continued to work on their bridge design task, that they already started with on Tuesday. At the end of the day the students did roughly estimate the dimensions of the main structural members of their bridge type. Also some thoughts were given to the construction process and possible costs.

Friday, September 16<sup>th</sup>:

It has been the final day of the seminar. In the morning the students finalized their work for the bridge design task, by drawing a plan of their design into the given river profiles. When finished the students presented their team design to the rest of the class and the whole class discussed about advantages and disadvantages of each design. There have been three different bridge types developed, each of them generally suitable for the given river profile. Following to an inclass discussing, Sebastian Lübke and Christoph Winkler presented the future bridge building project of EWB Germany at Kamajanga. At the end of the Seminar the students and EWB members discussed how to improve the seminar for the next year. The students made clear how much they appreciated this seminar. At last the certificates were handed out to the students.

Saturday, September 17<sup>th</sup>:

Christoph Winkler left for Vunga, to support Jannis Hülsmann with RWA-IOG08. Sebastian Lübke met with Prof. Kumaran, see 4, and left to the airport in the evening.

Sunday, September 18<sup>th</sup>:

Sebastian Lübke returned home safely.

RWA-IOG 08 Vunga Bridge Reinforcement, see separate report.



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### 3. Projekte in Vorbereitung / *projects in planning*

On Friday evening three members of EWB Rwanda joined us at the KIST Guest House and we discussed future possibilities of our cooperation. EWB Rwanda puts special interest in building up a training and teaching centre for young engineers.

### 4. Besprechungen, Telefonate, Besuche / *communication, meetings*

On Saturday Sebastian Lübke met with HoDCEE Prof. Kumaran. We discussed about future possibilities to deepen the cooperation between KIST and EWB. Next to continuation of the very successful Bridge Building Seminar, the possibility of cooperational final projects and thesis's, where KIST students being supported by EWB Germany. The acceptance of the seminar as part of the industrial attachement for students out of the 3<sup>rd</sup> year has been very much appreciated by EWB.

### 5. Projektakquisition / *possibility for new projects*

See 3.

### 6. Haushalt / *finance*

The financial situation is within the approved budget. We currently have trouble with actually withdrawing the money from the bank though.

### 7. Einsatzorte außerhalb Ruandas / *activities outside Rwanda*

- none

### 8. Personal / *staff*

- Still there are two members of EWB in Rwanda. Both are involved in RWA-IOG08 (*see separate report*)
- **Christoph Winkler** (project member of RWA-IOG07 and RWA-IOG08)
- **Sebastian Lübke** (project leader of RWA-IOG07 until September 18<sup>th</sup> in RW)
- **Jannis Hülsmann** (project leader of RWA-IOG08, *see separate report*)
- There has been no illness of any member during the last week

gez. / signed:

Sebastian Lübke (Projektleiter / *project leader*)

Dortmund, 19.09.2011