KIGALI, 16th December, 2016

TO: DISTINGUISHED PARTNER

Dear Madam / Sir,

SUBJECT: ENGINEERS WITHOUT BORDERS – RWANDA PROFILE

Engineers Without Borders (EWB-Rwanda) is a Non-Governmental Organization (NGO) that uses engineering practices to improve the quality of life through education and implementation of environmentally and economically sustainable engineering projects. It is established to partner with EWB chapters from around the world, other organizations or institutions and local communities, since 2005 some members in action (Wellars, Tuombe, Bonaventure and Joseph), and 2013 officially founded at the University of Rwanda / CST.

EWB-RWANDA has been officially registered under the registration No78/RGB/NGO/2016 dated 27th January 2016, by Rwanda Governance Board (RGB) for mission, vision and objectives as follows:

MISSION

EWB-RWANDA has been founded with a mission to partner with developing communities to improving the quality of life through education and implementation of engineering projects.

EWB-Rwanda gives to university students and engineering professionals’ members a unique and life changing opportunity to participate in and improve the global community.

VISION

EWB-RWANDA has a vision in which the communities have the capacity to sustainably meet their basic human needs, and that our members together with our partners have the global perspectives through the innovative professional educational opportunities.
GENERAL OBJECTIVE

To involve the concept and implementation of engineering assistance through which most of Rwandans citizens have the opportunity to meet their most basic needs. For that, it will partner with EWB chapters from around the world, other organizations or institutions and local population.

All members of the organization EWB-Rwanda will have the priority in case of recruitment of employees; they will professionally get trained for having the capacity to do so for others; for those members’ fresh graduates, will have the priority and facilities for keeping one’s terms according to their major of study.

SPECIFIC OBJECTIVES

I. Identification, implementation and ensuring the follow-up on the maintenance of implemented projects

II. Providing technical assistance to Rwandan Governmental and non-governmental organizations or institutions; and rural population in order to achieve millennium development goals (EDPRS II, VISION 2020,...);

III. Build the spirit of innovation and entrepreneurship in all sectors of activities with professional training so that more Rwandans get capacity by exercising different practices for improving living standards;

IV. Providing assistance to EWB-Chapters from around the world in implementation of their projects in Rwanda;

V. Working jointly with the Rwandan Government to identify the regions of greatest need throughout the country and identify projects that will have the greatest impact to the population in the Districts and Provinces;

VI. Organize fundraising activities in order to implement identified projects

VII. Implementing and maintenance of identified different projects;

VIII. Establishing training center and provide professional trainings;

IX. Partner with EWB-International and any other EWB from around the world in identification, preliminary design with implementation of the projects and capacity building in Rwanda.
EWB-RWANDA HISTORY

i. Water projects

In March 2004, it has been established the first visit of Engineers Without Borders (EWB)-USA at Muramba Parish and identified that some problems need sustainable solutions. This first visit was conducted by Dr. Bernard Amadei, Professor of Civil Engineering at Colorado University-Boulder/USA and Founder of Engineers Without Borders –USA. He was accompanied by other Engineers and other qualified from different disciplines of profession (Chemical, Civil, geological, mechanical, economists …)

They were specifically, focusing on developing communities; provide students with the opportunity to find solutions to some of the problems faced by the millions of people who are poor. It also challenges engineering students and other professions to identify vital issues which may be the greatest roadblocks to poverty alleviation through sustainable community development.

The assessment was done on identification and implementation of community development projects.

From 2005 up to date, different groups of professors and engineering students (Civil, geological, chemical, economists, and journalists) from EWB-USA Chapters, those from German and Canada, conducted several visits in Rwanda, and then implement different community projects in different areas of Rwanda. The projects are “Water supply, rainwater catchment, solar energy, fuel briquetting, bridges, seminars, agriculture, education, etc.”

Runyinya and Mukindo water projects located in Mukindo Sector of Gisagara District are currently being done in partnership with EWB-QUEBEC- Gisagara District and EWB-Rwanda.

Water pipe line in Hindiro /Ngororero District used by over 5, 000 people and 1750 Students, Capacity of flow late: 1.3 Littre/ Sec (By EWB-WU).

Runyinya water project in Mukindo/Gisagara District Capacity 20m$^3$ per day, serving 4,500 people, officers and Students at Runyinya Cell & School (EWB-QUEBEC)
ii. Bridges projects

Since the year 2000 up to date, Engineers Without Borders Germany – Bridge building group began its projects in Rwanda, working in close cooperation with former KIST (Kigali Institute of Science and Technology) which is currently the CST (College of Science and Technology) at the University of Rwanda / UR. In this cooperation, engineering Students were highly involved for all activities concerning the Sites identification, Bridge design, trainings and construction works, mostly leading with the construction of foot Bridges in different rural areas of Rwanda.

Maintenance and renovation of Kirambo road bridge, located between Karongi and Nyamagabe Districts. Vunga suspension Foot Bridge (45m long), is located in Vunga / Gakenke District.

Kamajanga suspension Foot Bridge (35m long), is located between two Sectors: Mulinga and Jomba of Nyabihu District, Western Province. It serves the people accessing to the nearest Main asphalt road, Schools, Kabaya Hospital, Kabaya modern Market, and Administrative offices (Jomba Sector), etc.
In the same line of Bridge building, an organization “Bridge to Prosperity” from US, in collaboration with EWB-RWANDA several sites have been identified and then executed foot bridges in different areas of Rwanda.

This is Kibirira river, one of the identification sites and implemented the foot bridge as solution.

Kibirira foot bridge (37m long) acrossing the river was too dangerous to across while raining (by Bridge to Prosperity from USA).

Identification of different sites was conducted in collaboration with EWB-Rwanda with local community and Bridge to Prosperity.

TABA foot bridge, Gakenke District (by Bridge to Prosperity from USA).

Along the period, Bridges to Prosperity and EWB-Germany have executed more than twenty (20) suspended Foot Bridges to serve over 150,000 people in different areas of Rwanda. Not only water and Bridges projects have put into action; also other several projects have been done by Engineers without Borders from USA and Germany, likely: Agriculture, solar energy, fuel briquettes, stove cooking, housing, teaching, trainings, solar water pumping, etc.
iii. Seminars

Seminars and sites location assessment were conducted at former Kigali Institute of Science Technology (KIST) currently at University of Rwanda/UR – College of Science and Technology (CST), by EWB-Germany, to engineering Students, on Bridges construction, with an objective to ensure a sustainable improvement of infrastructure in rural areas of Rwanda:
- Design and implementation of suspended foot bridges;
- Finding solutions from missing foot bridge infrastructure;
- Practical application of learned knowledge.

iv. Award

The Team from EWB-Germany and Team from Rwanda was awarded “Continuation Mondialogo Award” for the project titled” Design and construction of bridges for rural population in Rwanda”. The completion held with Fachhochschule Aachen, Germany, at the Universität Stuttgart-Germany in 2007.

This project team was selected for its continued commitment to intercultural dialogue and teamwork after presentation done by Joachim Schneider from EWB-Germany and Ntwari Joseph from KIST Student - Rwanda (who is the one of EWB-Rwanda founder members).

The teams continued their project work with intercultural teamwork in close cooperation (EWB-Germany and Rwandan Engineering Students from the University of Rwanda / College of Science and Technology / former KIST and the local communities).
v. Meeting and conference participation

Since different groups of Engineers Without Borders from around the world came to Rwanda, they were used to meet with Rwandan engineering Students, Lecturers, Local communities, privates, technicians, Churches, and other members of non-governmental organizations.

It’s from that point Engineers Without Borders from USA (especially Cathy Lesly), Germany and UK met with engineering Students from the University of Rwanda (eg. Martin, Wellars, Tuombe, Joseph, etc) and worked together on different sites for Bridges building, water supply, stove cooking, sites assessment, visiting site activities, identification of local materials, technical documentation, etc.

February 23rd 2007, the first National conference of Engineers - Rwandan held in former KIST, currently is the College of Science and Technology at the University of Rwanda. It was purposely to introduce and explain the contribution of Engineers Without Borders (EWB) to the Rwandan development in order to meet the national millennium goal known as “Rwanda vision twenty-twenty” (vision 2020).
One of Rwandan Engineers (Wellars) participated in the conference “Global Engineer International Forum sponsored by the Alcoa Foundation held on 29th - 31st October 2014 at Washington DC, and prepared by Engineers Without Borders-International (EWB-I).

It was designed to share best practices for student leadership, project management, communication, education, and cultural awareness and understanding, with three main objectives as follows:

1) To provide an opportunity for participating EWB-I member associations to share their Alcoa Foundation-funded programs, highlight lessons learned and best practices, and discuss how they plan to use outcomes to inform future work and curriculum development.

2) To provide all EWB-I members with an opportunity to learn from the outcomes of the Alcoa Foundation grant and discuss and explore how they might integrate best practices into their work.

3) To provide an opportunity for EWB-I member organizations to network with each other, and build value in the federation’s efforts.

The 2016 Engineers Without Borders-USA International Summit held on 17th - 19th March 2016 a Denver / Colorado - USA, brought together volunteers, academics, and industry sectors, and NGOs to engage in dialogue on collaborative roles in addressing the Sustainable Development Goals as defined by the United Nations 2030 Agenda. The Rwandan Engineer (Wellars) attended the conference.
EWB – RWANDA IN FOUNDATION

Meeting, discussing and working with Engineers Without Borders from around the world; having site and regional experience in needs; after analyzing the technical and managerial capacity of the Rwandans with local potential in materials; it was required to have a Rwandan group of Engineers to develop practical skills by giving solutions for identified problems into the community, as per the mission, vision, and objectives here above mentioned. (Ref. Attached certified Bylaws / Statutes).

Along the past years, Rwandan Engineers and Experienced Advisors (namely Bahoranye Wellars, Dr Gatabazi Jean Damascene, Dr MBEREYAHU Leopold, Sekamana Jean Damascene, NTWALI Joseph, Kyazy Eduard, NIKUZE Marie Joselyne, MUNYABUGINGO Bonaventure, and MUGOROZI Theophile) set together and analyzed the solutions as contribution to sustainable development projects through engineering networking humanitarian organization “Engineers Without Borders – Rwanda” in partnership with the Governmental Institutions and NGOs, Academics, Volunteers, Industries, and local communities.

EWB – RWANDA AREA OF INTERVENTION

1. Rural development (Infrastructure; F.eg. Construction of buildings, Roads, Bridges, etc.);
2. Economic transportation;
3. Productivity and Youth employment;
4. Power sector development;
5. Agricultural Technical support;
6. Water supply and treatment projects;
7. Renewable energy technology;
8. Scientific research development;
9. Advanced computer networking;
10. Youth and entrepreneurship innovation;
11. Low cost housing and urban planning;
12. Educational support and provision of trainings;
13. Projects management and valuation;
14. Provide practical skills and related workshops;

EWB – RWANDA STRATEGY

- Working in line of the national millennium development goal (Vision 2020, IDPRS II, Etc);
- Beneficiary will be involved in projects design and implementation since the beginning;
- Lecturers and Students from Colleges of the Rwanda University will be the first partners;
- Local communities will be contacted and involved in the projects;
- Professionals and Experts will be working with university Students for knowledge transfer;
- Members of EWB-RWANDA will be sharing the tasks for working to the projects;
- Local people will be trained and work on the projects for generating an income;
- Local materials will be used wherever required at reasonable price.
EWB – RWANDA IN ACTION TODAY

**Mukindo water project:**

In partnership with EWB – Quebec, EWB-RWANDA and Gisagara District, there is a water project which is in execution process of PHASE II. It will serve over 7000 people, with 50m³ of water storage per day. The project will be running by mainly “Solar water pump system” with a height of 160m.

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**Gashonyi health Centre water supply**

Gashonyi health centre is located at 13km from Muramba parish, Matyazo Sector of Ngororero District. It has the new building done by the Ministry of Health. But currently, there are two major problems: one of Water another one is Electricity. Currently, there is water harvesting system which is not appropriate for the building, and not give any solution during sunny season.

EWB-RWANDA has already done the technical study for water supply. The pipe line will be under gravity system with 0.9L/S. Serving the Clinic, School and people around. In collaboration with District of Ngororero and EWB-Rwanda, phase two will be an implementation phase once sponsored.
WHY EWB-RWANDA? To contribute finding solutions for humanitarian sustainable engineering projects on identified problems.

List of Founder Members

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We will be very grateful if you participate in official Launch of Engineers Without Borders-Rwanda scheduled on this Thursday 22nd December 2016 at 2:30 PM at the University of Rwanda /UR – College of Science and Technology /CST, KIGALI.

Sincerely yours,

Wellars BAHORANYE  
Representative of EWB – RWANDA  
University of Rwanda - College of Science and Technology / KIGALI