



Consultancy Services for Strategic Advisory for Science and Mathematics in Senior High Schools

Client: Ghana Education Service
Project value: 327.895 euro
Funding: World Bank

Duration: December 2015- December 2017
Lead firm: Cadena
Partner: ITEC Global, Douglas Arthur Ltd, IBF International consulting

The consultancy is part of the Secondary Education Improvement Project (SEIP) in Ghana. The key results related to the Secondary Education Improvement Project are to:

- Ensure improved teaching and learning outcomes in the 125 selected SHS, with the eventual aim of increasing the proportion of students (approximately 50% girls) who achieve 6 credits (approximately 50-60% on test scores for 6 subjects) and above on their West Africa Senior School Certificate Examination (WASSCE).
- Ensure effective participation of Science and Math SHS teachers in training to upgrade content and practice innovative pedagogy in the following subject areas: Physics, Chemistry, Biology, Integrated Science, Core Math, and Elective Math with the key aim to improve teaching and learning outcomes in these subject areas in the classroom.

The objective of this consultancy is to provide high-level technical guidance and support for a period of two years for Science and Math teaching and learning improvement in Senior High Schools. This support includes advisory services to decision-makers and policy-implementers within the Science and Mathematics Team of the Ghana Education Service and other relevant units in the Ministry of Education.

The consultancy will assist key implementers to oversee, manage, and implement activities related to Science and Math quality improvement. The support focusses on incorporating international best practices and innovation as well as specific, technical input on types of tools and content to be implemented.



Key Deliverables

- Synthesized report on best practices with secondary school education and management
- Long-term strategy for science and mathematics teaching and learning improvements
- School monitoring tools and implementation
- Report on current teaching and learning standards
- Establishment of annual assessment system of learning outcomes
- Development of teacher incentives and award system
- Define and provide TOT on challenging subjects
- Support test-item development
- Prepare Science and Mathematics Olympiads Exam
- Provide INSET on pedagogy, and use of new equipment and technologies



Stakeholders

- Ministry of Education
- Ghana Education Service
- Secondary Education Division
- Science and Mathematics Team
- Senior High Schools (SHS)
- Curriculum Research and Development Division (CRDD)
- Centre for National Distance Learning and Open Schooling (GENDLOS)

Staff

- Team Leader
- SHS Chemistry expert
- SHS Physics expert
- SHS Biology expert
- SHS Mathematics expert
- M&E/ MIS expert
- Ghana science education experts

Anticipated project impact of the two-year programme:

- More efficiently managed and supervised Mathematics and Science in SHS and by GES
- Teachers become more effective professionals
- Student learning outcomes measurably improved

Business Development - Turn-Key Project Development - Consultancy - Project Management - Training

Cadena international development projects

P.O. Box 1958 | 5200BZ 's-Hertogenbosch | The Netherlands
phone: +31 (0)73 612 1707 | fax: +31 (0)73 612 1719 | info@cadena-idp.com | www.cadena-idp.com