FEDERAL REPUBLIC OF NIGERIA

Federal Ministry of Education

State Education Program Investment Project (SEPIP)
Environmental and Social Management Framework (ESMF)

DRAFT FINAL REPORT

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TABLE OF CONTENTS

LIST OF TABLES .................................................................................................................. 3
LIST OF ACRONYMS ............................................................................................................ 4
EXECUTIVE SUMMARY ....................................................................................................... 6

Environmental Impacts ....................................................................................................... 9

CHAPTER ONE: INTRODUCTION ..................................................................................... 11

1.1: Project Background .................................................................................................. 11
1.2: Objectives of the Environmental and Social Management Framework (ESMF) .............. 12
1.3: Study Approach and Methodology ............................................................................. 13
1.4: Assessment of Education Sector .................................................................................. 13

CHAPTER TWO: PROJECT DESCRIPTION ....................................................................... 16

2.1 Project Overview ....................................................................................................... 16
2.2 Project Components ................................................................................................... 16

CHAPTER THREE: POLICY, LEGAL AND INSTITUTIONAL FRAMEWORK .................. 18

3.1 Policy Framework ..................................................................................................... 18
3.2 Regulatory Framework ............................................................................................. 19
  3.2.1 Federal Legislation ............................................................................................... 19
3.3 Applicable International Agreements ......................................................................... 21
3.4 Assessment of the Policy and Regulatory Framework .................................................. 22
3.5 Institutional Framework ............................................................................................. 23
3.6 World Bank Safeguard Policies .................................................................................. 24

CHAPTER FOUR: BASELINE DATA ............................................................................... 26

4.1 Project Area and Location ......................................................................................... 26
4.2 Physical Environment of the States/Locations ............................................................. 27
4.3 Socio-Economics ....................................................................................................... 29

CHAPTER FIVE: POTENTIAL ENVIRONMENTAL AND SOCIAL IMPACTS .................. 36

5.1: Environmental Impacts ............................................................................................. 36

Construction and Rehabilitation Phase ............................................................................. 36
5.2 Social and Health Impacts .......................................................................................... 37
Operation Phase .................................................................................................................. 37

Note: NA is for “Not Applicable” .......................................................................................... 41

CHAPTER SIX: ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP) ....... 42

6.1 Mitigation Measures ................................................................................................... 42
6.2 Implementation Arrangement ..................................................................................... 43
6.3 Capacity Strengthening for ESMP Implementation ....................................................... 44
6.4 Monitoring Plan .......................................................................................................... 44

Monitoring Procedure ...................................................................................................... 45
6.5 ESMP Cost Estimate .................................................................................................. 45

CHAPTER SEVEN: PUBLIC CONSULTATION ................................................................. 46

7.1 Objectives ................................................................................................................... 46
7.2 Stakeholders ................................................................................................................ 46
7.3 Consultation Strategies ............................................................................................... 46

ANNEXES .......................................................................................................................... 47

Annex 1: Summary of World Bank Environmental and Social Safeguard Policies .......... 47
Annex 2: Environmental and Social Screening (ESS) of sub-projects .......................... 50
Annex 3: Terms of Reference .................................................................................. 54
Annex 4: Standard Format for Environmental and Social Management Plan (ESMP) ...... 58
Annex 5: Generic Guidance on Environmental and Social Management Plan (ESMP) by Project Phases ........................................................................................................... 59
Annex 6: Procedures for determining sub-projects requiring an ESIA ........................... 62

LIST OF FIGURES

Figure 4.1 Map of Nigeria showing the project States
Figure 0.1 SEPIP Implementation Arrangement

LIST OF TABLES
Table 1.1 Some core indicators information for primary education in the states 2007/2008 Session
Table 0.1 Education Projects Typology
Table 3.1 Existing National Environmental Protection Regulations
Table 4.1 Population Figure of the States
Table 0.1 Summary of the Potential Environmental and Social Impacts of the SEIP
Table 0.1 Summary of Environmental Mitigation Measures
### LIST OF ACRONYMS

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADP</td>
<td>Agricultural Development Project</td>
</tr>
<tr>
<td>AU</td>
<td>African Union</td>
</tr>
<tr>
<td>CBF</td>
<td>Community Based Facilitators</td>
</tr>
<tr>
<td>CEDAW</td>
<td>Convention on the Elimination of all Forms of Discrimination against Women</td>
</tr>
<tr>
<td>CHC</td>
<td>Comprehensive Health Centres</td>
</tr>
<tr>
<td>CRC</td>
<td>Convention on Rights of the Child</td>
</tr>
<tr>
<td>DFRI</td>
<td>Directorate for Food Road and Rural Infrastructure</td>
</tr>
<tr>
<td>DLI</td>
<td>Disbursement Linked Indicators</td>
</tr>
<tr>
<td>EA</td>
<td>Environmental Assessment</td>
</tr>
<tr>
<td>ECOWAS</td>
<td>Economic Community of West African States</td>
</tr>
<tr>
<td>EEP</td>
<td>Eligible Expenditure Programs</td>
</tr>
<tr>
<td>EIA</td>
<td>Environmental Impact Assessment</td>
</tr>
<tr>
<td>EMIS</td>
<td>Environmental Management Information System</td>
</tr>
<tr>
<td>EMP</td>
<td>Environmental Management Plan</td>
</tr>
<tr>
<td>EMS</td>
<td>Environmental Management Systems</td>
</tr>
<tr>
<td>ESI</td>
<td>Environmental and Social Impact Assessment</td>
</tr>
<tr>
<td>ESIA</td>
<td>Environmental and Social Impact Assessment</td>
</tr>
<tr>
<td>ESMF</td>
<td>Environmental and Social Management Framework</td>
</tr>
<tr>
<td>ESMS</td>
<td>Environmental and Social Management Specialist</td>
</tr>
<tr>
<td>ESMU</td>
<td>Environmental and Social Management Unit</td>
</tr>
<tr>
<td>ESS</td>
<td>Environmental and Social Screening</td>
</tr>
<tr>
<td>ETF</td>
<td>Education Trust Fund</td>
</tr>
<tr>
<td>FEPA</td>
<td>Federal Environmental Protection Agency</td>
</tr>
<tr>
<td>FGD</td>
<td>Focus Group Discussion</td>
</tr>
<tr>
<td>FGN</td>
<td>Federal Government of Nigeria</td>
</tr>
<tr>
<td>FME</td>
<td>Federal Ministry of Education</td>
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<tr>
<td>FMEnv</td>
<td>Federal Ministry of Environment</td>
</tr>
<tr>
<td>FMF</td>
<td>Federal Ministry of Finance</td>
</tr>
<tr>
<td>FPSU</td>
<td>Federal Project Support Unit</td>
</tr>
<tr>
<td>GLO</td>
<td>Globacom Network</td>
</tr>
<tr>
<td>GSM</td>
<td>Global System of Mobile Communications</td>
</tr>
<tr>
<td>HIV/AIDS</td>
<td>Herpes Immune Virus/Acquired Immune Deficiency Syndrome</td>
</tr>
<tr>
<td>LGA</td>
<td>Local Government Area</td>
</tr>
<tr>
<td>MCH</td>
<td>Maternal and Child Health</td>
</tr>
<tr>
<td>MDG</td>
<td>Millennium Development Goals</td>
</tr>
<tr>
<td>MTN</td>
<td>Mobile Telecommunications Network</td>
</tr>
<tr>
<td>NBTE</td>
<td>National Board for Technical Education</td>
</tr>
<tr>
<td>NECO</td>
<td>National Examinations Commission</td>
</tr>
<tr>
<td>NERDC</td>
<td>Nigeria Education Research and Development Council</td>
</tr>
<tr>
<td>NESREA</td>
<td>National Environmental Standards and Regulations Enforcement Agency</td>
</tr>
<tr>
<td>NGO</td>
<td>Non Governmental Organization</td>
</tr>
<tr>
<td>NIP</td>
<td>National Implementation Plan</td>
</tr>
<tr>
<td>NIPOST</td>
<td>Nigerian Postal Service</td>
</tr>
<tr>
<td>NPCC</td>
<td>National Project Coordinating Committee</td>
</tr>
<tr>
<td>NPEC</td>
<td>National Primary Education Commission</td>
</tr>
<tr>
<td>NUT</td>
<td>National Union of Teachers</td>
</tr>
</tbody>
</table>
OP  Operational Policy
PHC  Primary Health Centres
PIC  Project Implementation Committee
PTF  Petroleum Trust Fund
SBCMS  School Based Community Management System
SBMC  School-Based Management Committee
SDRD  State Directorate for Rural Development
SEPA  State Environmental Protection Agency
SEPIP  State Education Program and Investment Project
SIP  School Improvement Plan
SMoE  State Ministry of Education
SMoEnv  State Ministry of Environment
SMoF  State Ministry of Finance
SPEB  State Primary Education Board
SPTSU  State Project Technical Support Unit
STEP-B  Science, Technology Education, Post Basic
TA  Transformation Agenda
TBL  Tubal Legation
TETFund  Tertiary Education Trust Fund
TOR  Terms of Reference
UBE  Universal Basic Education
UBEC  Universal Basic Education Commission
UNESCO  United Nations Educational Scientific Cultural Organization
UNICPD  United Nations’ International Conference on Population and Development
UPE  Universal Primary Education
VPF  Virtual Poverty Fund
WAEC  West African Examinations Council
WB  World Bank
WCEFA  World Conference on Education for All
EXECUTIVE SUMMARY

Project Background and Objectives
Education plays a pivotal role in national development as it is a vital instrument for social and economic mobility at the personal level and for transformation of the society at the national level. In pursuance of education for all, the Nigeria government developed the national policy on education (1977, revised 1999), introduced several policy measures among which are the Universal Primary Education (UPE), the transfer of primary education from residual to the concurrent legislative list, the re-establishment of the National Primary Education Commission (NPEC), and State Primary Education Board (SPEB), the Universal Basic Education, among others. Also the Federal Ministry of Education developed a 4-year strategic plan (2011-2015) for the development of education sector. The strategic plan has six focal areas drawn from existing plans of FME- roadmap and one year strategy and the report of the presidential task team on education.

Thus, as part of its transformation agenda and education strategy, the Federal Government of Nigeria (FGN) is embarking on the implementation of a strategy of gearing education initiatives towards achieving the desired outcomes and results. Consequently, the Government’s ongoing discussions with the World Bank have focused on how to ensure that the desired educational targets are achieved through a shift in focus on inputs and outputs to the achievement of results and outcomes. The overall aim of the project is to support the participating States in improving governance in the education sector through: (i) strengthening school autonomy and accountability through local and state level management; (ii) improving teacher performance and management; (iii) improving measurement of student learning; (iv) strengthening planning, monitoring and evaluation and accountability; and (iv) enhancing the fiscal sustainability and effectiveness of public expenditures in education.

In recognition of the fact that environmental and social concerns may arise as a result of the proposed project, the Federal Ministry of Education is developing an Environmental and Social Management Framework (ESMF) in fulfillment of the Bank requirements for project appraisal. The SEPIP project has been assigned environmental category B because the foreseeable impacts are minimal, site specific and reversible. The ESMF presents a framework for screening, monitoring and mitigating potential impacts, with a process for triggering subsequent sub-project environment and social assessments, where necessary. This ESMF was developed in accordance with applicable World Bank policies and Nigerian environmental assessment guidelines.

The ESMF presents a framework for screening, monitoring and mitigating potential impacts, with a process for triggering subsequent sub-project environment and social assessments, where necessary. This ESMF was developed in accordance with applicable World Bank policies and Nigerian environmental assessment guidelines.

Project Description
The overall aim of the project is to support the participating States (Anambra, Bauchi, Edo and Ekiti States) in improving governance in the education sector.

Project Component
The project consists of two components: (a) Supporting the participating states program for improving the quality of education to be disbursed against achievement of Disbursement-linked Indicators (DLIs) to Eligible Expenditure Programs (EEPs); and (b) Technical Assistance Component to support Component 1.

Component 1 – Results-Based Component
The aim of this component is to support participating State Governments’ program priorities through selected disbursement-linked indicators focusing on the achievement of tangible and measurable results over the project period as follows: (a) improving teacher effectiveness through deployment and recruitment; (b) Improving the regular measurement of learning; (c) Improving technical and vocational education; (d) Strengthening School-based management committee’s participation and capacity for supporting school management and accountability. The interventions include Teacher Deployment to hard-to-staff schools, Teacher Deployment in Core Subject Areas, Recruitment of Female Teachers, Recruitment of Science and Technology Teachers, Improving the regular Measurement of Learning, and School Improvement Grants.

Component 2- Technical Assistance
The objective of this component is to provide technical assistance under two sub-components: (a) support States towards achievement of DLIs, and the associated institutional capacity strengthening; and (b) support the Federal Government in overall project coordination and in providing the enabling environment in line with national policies, and to ensure sustainability and scaling-up of successful activities in other potential states.

Policy, Legal and Institutional Framework
The following national, state, and international policies and regulations are applicable to the educational sector and environmental and social issues pertaining to the State Education Program Investment Project:

Policy Framework
- National Policy on Education 2004
- National Policy on Science and Technology 1986
- The National Urban Development Policy 1989
- The Transformation Agenda
- The four Strategy of the Federal Ministry of Education
- World Conference on Education for All (WCEFA) 1990
- Dakar World Education Forum 2000
- United Nation Millennium Development Goals 2000
- International Convention on Economic, Social and Cultural Rights (ICESR)

Regulatory Framework
- Federal Environmental Protection Agency Act 1988
- National Guidelines on Environmental Audit in Nigeria 1999
- National Environmental Standards and Regulations Enforcement Agency (NESREA) Act 2007
- Universal Basic Education (UBE) Act 2004

Project Environment

The States where the project will be implemented are Anambra, Bauchi, Edo and Ekiti (see figure 1 below). Anambra state which came into being on August 27 1991 was created from the old Anambra state and is located in South-Eastern Nigeria, on the eastern plains of the River Niger. It is located between latitude 5° 45N to 6° 45N; and longitude 7° 15E to 7° 45E. Bauchi State was created as a state in 1976 although Gombe State was carved out of the then Bauchi State in October 1996. Bauchi State's southern and northern limits are demarcated by latitudes 9°30' North and 12°30' North, respectively, its western and eastern limits are bounded by longitudes 8°45' East and 11°0' East, respectively. Edo State is an inland state in central southern Nigeria. Edo State was formed on 27 August 1991. It is bounded in the north and east by Kogi State, in the south by Delta State and in the west by Ondo State. Edo State lies between longitude 6°04'E and 6°43'E and latitude 5° 44'N and 7°34'N. The State occupies a landmass of 17,802 km² Ekiti State was created on 1st October 1996. It is now made up of Ekiti Central, Ekiti North, Ekiti South and Ekiti West Divisions. Ekiti State is located between latitudes 7°25' and 80°5'N and between longitudes 4°45' and 5°46 east.

School Statistic Data in the Participating States (2007/2008 academic session)

<table>
<thead>
<tr>
<th>STATE</th>
<th>NO OF PRIMARY SCHOOL</th>
<th>PRIMARY SCH. ENROLMENT</th>
<th>NO OF JSS</th>
<th>JSS ENROLMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Public</td>
<td>Private</td>
<td>Public</td>
<td>Private</td>
</tr>
<tr>
<td>Anambra</td>
<td>1367</td>
<td>507</td>
<td>513,421</td>
<td>57,189</td>
</tr>
<tr>
<td>Bauchi</td>
<td>2601</td>
<td>293</td>
<td>682,836</td>
<td>56,334</td>
</tr>
<tr>
<td>Edo</td>
<td>1290</td>
<td>613</td>
<td>199,315</td>
<td>15,146</td>
</tr>
<tr>
<td>Ekiti</td>
<td>1153</td>
<td>321</td>
<td>167,095</td>
<td>10,848</td>
</tr>
</tbody>
</table>


Potential Environmental and Social Impacts

The impact of each activity is assessed qualitatively through the relevant environmental and social media which are:
- Environmental media - Air, Water, Soil and Vegetation
- Social media - Community Structure, Livelihood, Community Infrastructure, Population/Demographics, Public Health, and Land Use

In analysing the impacts, three criteria were used:
- The Severity of the impact on the existing environment (High, Medium, or Low)
- The Likelihood of the impact occurring (High, Medium, or Low)
The Effect of the impact, whether beneficial (+) or adverse (-)

**Environmental Impacts**
Generally, there will be no major environmental impacts given that project activities focus on education quality and systems improvements. The project does not involve any construction or rehabilitation thus there are no impacts on the environment.

During the operation phase and considering the nature of the project, it is not likely that any of the project components will impact on water resources. Also, considering the nature of the project, it is unlikely that any of the project components will lead to air pollution. However, lab reagents can be purchased by the schools using this funds and this can pollute the environment. The reagents may emit air pollutants which may increase respiratory disorders e.g. nasal discomfort as a result of inhaling air particles from extractor fan. In addition, considering that the project is on quality and systems improvement, limited waste materials may be generated as a result of management activities. Thus there could be illegal dumping of solid waste in drainage channels which may result in blocked drainages and cause flooding, while improper use and disposal of sanitary facilities in the schools can attract pests and disease vectors.

**Social Impacts**
Perceived socio-economic were identified from key socio-economic indicators (livelihood, community structure, public health, land use and population) and the projects components at all level of the project implementation. The impacts of the project on educational development are largely positive. The provision the recruitment and deployment of teachers in the States especially in the rural areas will help improve the quality of education and enhance the completion rate and students/pupils performance in both primary and secondary schools especially at junior secondary level.

**Environmental and Social Management Plan**

**Mitigation Measures**
Giving that there will be no major environmental impacts given that project activities focus on education quality and systems improvements mitigation activities as regards environment will be limited. Mitigation activities on environment will focus on waste management and control of pollution that may result from activities involving minor repairs and purchases using the school grants. In terms of waste management, there will be quick sorting, collection and disposal of waste removed from the sites in accordance with applicable regulations. There may be also employment of services of registered waste management company. To maintain air quality, the project will adopt proper waste management strategy, prohibit waste combustion on site and encourage workers in pollution prone areas or activities to wear nose masks.

Considering the risk of communicable and sexually transmitted diseases, it is recommended that the project conduct an awareness raising campaign for the community and school participants (pupils, students, teachers, etc.); develop, produce and circulate leaflets to educate people of dangers of sexually transmitted diseases and how to prevent them and print posters to educate people on HIV/AIDS.
Implementation Arrangement
The key stakeholders required to implement the SEPIP include the Federal Ministry of Education and the State Ministry of Education. The National Project Coordination Committee, which will be responsible for overall coordination and monitoring of project implementation, assisted by UBEC. The Federal Ministry of Finance will provide support to SEPIP. The unit in the FME that will be responsible will be the Federal Project Support Unit of FME. The SMoE will be responsible for coordination in the state. The SPTSU of the SME will be the main unit in the ministry responsible. The FME/SMoEnv and State Environmental Protection Agencies will publicise the ESMF and review monitoring reports to ensure regulatory compliance.

Capacity Strengthening
Institutional strengthening will be required for the FPSU and SPTSU to effectively carry out the environmental and social management responsibilities for sub-project implementation. An assessment of training needs and the development of a training strategy plan need to be conducted as an initial implementation activity which will, *inter alia*, determine and confirm whether the training programme proposed will suffice or is required.

Proposed training for the ESMS are as follows:
- Environmental and Social Management Process.
- Use of Screening form and Checklist
- Preparation of terms of reference for carrying out EA
- Design of appropriate mitigation measures, among others.

ESMP Cost Estimates
It is recommended that at least 2.5% of the total budget (USD150 Million) for the project (result based component) should be allocated to manage environmental and social concerns. It is therefore, expected that the ESMP will cost USD$375,000. This involves the cost for mitigation, management, capacity strengthening and monitoring.
CHAPTER ONE: INTRODUCTION

1.1: Project Background

Education plays a pivotal role in national development as it is a vital instrument for social and economic mobility at the personal level and for transformation of the society at the national level. It engenders the rate of socio-economic, technological and political advancement; influences and stabilizes positive changes in other sectors of the economy; prepares individuals for self reliance and transforms them. Through education, individuals are empowered to make choices that affect their wellbeing. The United Nations’ International Conference on Population and Development (1994) encouraged governments’ worldwide to ensure access to all to education beyond the primary level. To ensure access to education at all levels, UNESCO recommends that 26 percent of government’s annual budget is deployed to the education sector.

In pursuance of education for all, the Nigeria government developed the national policy on education (1977, revised 1999), introduced several policy measures among which are the Universal Primary Education (UPE), the transfer of primary education from residual to the concurrent legislative list, the re-establishment of the National Primary Education Commission,(NPEC), and State Primary Education Board (SPEB), the Universal Basic Education, among others. In 2007, the Federal Ministry of Education released a 10-Year Education Sector Plan, emphasizing: (i) universal access to basic education; (ii) minimum quality standards; (iii) finance reform to underpin greater equity; and (iv) effective human capital development. Thus, investments in basic education have led to a significant increase in coverage. For instance, primary enrollment rose from 17.9 million students in 1999 to 22.9 million in 2006 (an increase of 28 percent). Apart from the UBE scheme, which provides for free primary education up to Grade 6 and junior secondary education, the Federal Government also provided direct funding through the Education Trust Fund (ETF), and the Virtual Poverty Fund (VPF) (from the debt relief initiative) towards achievement of the MDGs. In line with the commitment of the FME towards enhancing quality education in Nigeria, actions have been taken over the past months towards addressing some challenges facing the sector. There was development of a roadmap with four focal areas namely access and quality, standards and quality assurance, technical and vocational education and funding to serve as a guide to enhancing quality education. Also a one year strategy for the development of education sector (May 2010-April 2011) was developed from the roadmap and this introduced two new focal areas, namely, teacher education development and strengthening the institutional management of education. Currently, the transformation agenda (2011 -2015) outlines the priority policies the government will pursue for the development of education sector to include proportion of primary enrolment of all children in school going age irrespective of income of parents, provision of infrastructure such as classrooms, increase access and reduce pupil teacher ratio, and enhance the efficiency, resourcefulness and competence of teachers and other educational personnel through training, capacity building and motivation. Now, the federal Ministry, in pursuing the transformation agenda developed a 4-year strategic plan (2011-2015) for the development of education sector. The strategic plan has six focal areas drawn from existing plans of FME- roadmap and one year strategy and the report of the presidential task team on education.

Thus, as part of its transformation agenda and education strategy, the Federal Government of Nigeria (FGN) is embarking on the implementation of a strategy of gearing education initiatives
towards achieving the desired outcomes and results. Consequently, the Government’s ongoing discussions with the World Bank have focused on how to ensure that the desired educational targets are achieved through a shift in focus on inputs and outputs to the achievement of results and outcomes.

The overall aim of the project is to support the participating States in improving governance in the education sector through: (i) strengthening school autonomy and accountability through local and state level management; (ii) improving teacher performance and management; (iii) improving measurement of student learning; (iv) strengthening planning, monitoring and evaluation and accountability; and (iv) enhancing the fiscal sustainability and effectiveness of public expenditures in education. The proposed project development objective is to improve education quality in selected States. The project will have two components: (a) Supporting the Selected States education program by improving education quality; and (b) Technical assistance provision of a package of financial and technical support to both the State specific education sector programs, focusing on technical educational inputs (e.g. learning assessments), institutional strengthening, monitoring and evaluation, medium-term budget framework and project coordination. and targeted education sector at Federal level, and cross-cutting areas on policy and effective use of public expenditures.

Since the potential project impacts will be site-specific typical of category B projects, at this instance, the appropriate instrument would be the Environmental and Social Management Framework (ESMF). While there is no construction involved in the project, an ESMF detailing the processes and procedures will be prepared and disclosed in the event that minor school repairs/maintenance will need to be done through the proposed school grants under the project. Thus this Environmental and Social Management Framework (ESMF) has been prepared in line with the requirements of the World Bank and the existing national regulation (EIA Act No. 86 of 1992).

The World Banks Operational Policy (OP) 4.01 requires that an ESMF be prepared which will establish a mechanism to determine and assess future potential environmental and social impacts of project, and then to set out mitigation, monitoring and institutional measures to be taken during design, implementation and operation of the subprojects to minimise adverse environmental and social impacts to acceptable levels. The policy further requires that the ESMF report must be disclosed as a separate and stand alone document as a condition for Bank appraisal. The disclosure should take place both in Nigeria where it can be accessed by the general public and local communities, and at the Infoshop of the World Bank.

In recognition of the fact that environmental and social concerns may arise as a result of the proposed project, the Federal Ministry of Education has prepared an ESMF in fulfillment of the Bank requirements for project appraisal. The ESMF presents a framework for screening, monitoring and mitigating potential impacts, with a process for triggering subsequent sub-project environment and social assessments, where necessary.

1.2: Objectives of the Environmental and Social Management Framework (ESMF)

The ESMF shall clarify environmental mitigation principles, organizational arrangements and design criteria to be applied to the State Education Program Investment project. The goal of the
ESMF is to improve decision making and to ensure that the social infrastructures (schools), if any, considered under the project are environmentally sound and sustainable. Specifically, it focuses on:

- assessing the potential environmental and social impacts of sub-projects (rehabilitation, extension or upgrade of educational infrastructures), whether positive or negative, and propose mitigation measures which will effectively address these impacts;
- establishing clear directives and methodologies for the environmental and social screening of micro-projects to be financed by the project;
- identifying the environmental policy, regulatory and institutional framework pertaining to the State Education Program Investment Project;
- Informing the project preparation team, the federal government and participating state governments of potential impacts of the anticipated sub-projects and relevant mitigation measures and strategies.

The expected output is a report that provides basic information about the scope of adverse environmental and social impacts to be induced by project operations; mitigation and monitoring actions; to be taken and cost implications.

1.3: Study Approach and Methodology

This ESMF was developed in accordance with applicable World Bank policies and Nigerian environmental assessment guidelines. The distinct phases of the study include:

- Literature Review

The approach was based on review of project literature and other strategic planning documents. Specifically, the following were reviewed: situation analysis, national education policy, state education plan, federal and state environmental regulations, Decrees, Acts, policies and guidelines, World Bank safeguard policies and other relevant documents

- Data Gathering

Data on the current state of the environment as well as information relevant to the sector program were sourced from different institutions, including federal and state ministries of education. The information gathered was reviewed to obtain detailed descriptive, qualitative and quantitative data on the environmental, sociological, land tenure and resettlement laws, regulations, standards, and policies relating to the project. Subsequently, baseline data of the 3 participating states were reviewed.

In addition, environmental screening and scoping of the project’s field of influence and activities were undertaken. Data analysis and impact identification and identification of mitigation measures and preparation of EMP were done.

1.4: Assessment of Education Sector

The National Policy on Education stipulates a 6-3-3-4 structure offering six years of primary, three years of junior secondary, three years of senior secondary and four years of higher education. The hierarchical structure of the educational system has as its base, early childhood education in which government’s role has been limited to setting standards, providing curriculum guidelines and training teachers with the private sector providing educational service. Primary
and junior secondary education constitutes basic education that is free and compulsory. Table 1 shows the core indicators information for primary education in the three states. A special nomadic education programme for the children of migrant herding and fishing communities is also encompassed in the basic education package.

Table 1.1: Some core indicators information for primary education in the states 2007/2008 Session

<table>
<thead>
<tr>
<th>State</th>
<th>Num of schools</th>
<th>Percentage of schools reported</th>
<th>Pupil gender gap</th>
<th>Teacher gender gap</th>
<th>Pupil to teacher ration</th>
<th>Pupil to qualified teacher ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anambra</td>
<td>1724</td>
<td>64.85</td>
<td>0.07</td>
<td>-79.57</td>
<td>41.06</td>
<td>58.9</td>
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<tr>
<td>Bauchi</td>
<td>2544</td>
<td>72.21</td>
<td>17.67</td>
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<tr>
<td>Edo</td>
<td>1862</td>
<td>49.89</td>
<td>1.8</td>
<td>-41.36</td>
<td>28.9</td>
<td>44.3</td>
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<tr>
<td>Ekiti</td>
<td>1374</td>
<td>64.77</td>
<td>-3</td>
<td>-40.89</td>
<td>58.52</td>
<td>84.09</td>
</tr>
</tbody>
</table>

Source: Digest of Education Statistics, 2010

The senior secondary level includes both an academic curriculum provided in general secondary schools and other curricula provided in technical colleges and vocational centres. Adult and non-formal education caters for the needs of a good number of young people who do not reach the senior secondary level, while Islamic education forms an important traditional part of the formal and informal delivery of education in Nigeria with varying degrees of integration with formal education on a state- to- state basis.

One other stratum in the structure is technology and science education. Technology education is composed of pre-vocational education at the primary and junior secondary levels, vocational training in technical colleges and vocational training centres, technical education in polytechnics and monotechnics and some professional education in universities.

In terms of management, education is placed on the concurrent legislative list in the 1999 constitution that provides the legal framework for educational management in Nigeria. This implies that both Federal and State governments have legislative jurisdiction and corresponding functional responsibilities with respect to education. By this arrangement, although a few functions are exclusively assigned to the Federal or State government, most of the functions and responsibilities are in fact shared by the three tiers of government. According to the constitutional provisions, the main responsibilities of the Federal government in basic education are in the realm of policy formulation, coordination and monitoring. Direct control by the Federal government is preponderantly at the tertiary level. Only a handful of institutions at the secondary level (the Unity Schools and technical colleges) enjoy federal direct control. The bulk of secondary schools in the country are under the purview of state governments, which are also directly responsible for a considerable proportion of the nation’s tertiary institutions. Local governments have statutory managerial responsibility for primary education, with the federal and state governments exercising appropriate oversight functions.

Although there has been some level of improvement in the management of education in Nigeria over the past years the system is yet to effectively support Nigeria’s human capacity needs to meet developmental objectives. There is still a huge problem of access and equity. There is low
enrolment in early childhood education. A total of 10.1 million school age children are out of school out of which 7.3 million is in the primary age and 2.8 million in the secondary age (Digest of Education, 2010). Although reliable measures of student achievement are limited, a few available assessments of student learning outcomes show prevailing low education quality, resulting in turn in low system efficiency. The situation is similar for most states, including Anambra, Bauchi, Edo and Ekiti. In addition Nigeria’s primary completion rate is relatively low, with only about three-quarters of students completing the primary education cycle (Grades 1-6), and only about 76 percent of these go on to junior secondary school. The average completion rate at the end of primary education as a percentage of enrolments in Grade 1 are on average reported to be 55 percent, with a transition rate of 50.3 percent to secondary school, of which the recorded average completion rates are 62 percent for girls and 59 percent for boys.

Another major challenge is poor standard and quality assurance. There is general belief that quality of education in Nigeria has fallen. There is substantial number of unproductive teachers in the public school system due to poor learning environment and inadequate motivation. Less than 30% of candidates pass WAEC/NECO examinations in five (5) subjects including English Language and mathematics. There is decline in the quality of input and output of Nigeria tertiary institutions particularly from public schools. The main contributing factors to low learning outcomes are the poor conditions of the learning environment (e.g. physical facilities, including water and sanitation, inadequate distribution of essential textbooks and instructional aids), lack of teachers or their poor deployment, poor teaching quality, inadequate teacher training, low motivation and limited opportunities for professional development.

In addition, there is weak governance and management capacity. The education system suffers from an absence of accountability/quality mechanisms, and limited capacity for policy-making, planning, management, and monitoring and evaluation. In general, the following key issues are consistent across states: (i) ineffective policy implementation or fragmented decision-making due to poor division of responsibilities, unclear overlapping functions, a multitude of parastatal/agencies, and poor relationships across government and concerned agencies; (ii) inadequate strategic planning and management capacity; (iii) absence of a sound and reliable monitoring and evaluation system; and (iv) scarce reliable information on students' learning outcomes.

Efforts to improve the sector led to the initiation of actions meant to transform the education system and ultimately the Nigerian society. Some of these include the development of a roadmap to enhance the quality of education delivery, the presidential task team on education, the amendment of the ETF Act to become TETFund now only funding infrastructure development and maintenance in federal and state tertiary institutions, and the new four year strategic plan for education based on the road map, the one strategy and the report of the presidential task team on education.
CHAPTER TWO: PROJECT DESCRIPTION

2.1 Project Overview

The proposed project is a US$150 million Specific Investment Credit to the Federal Government of Nigeria, which in turn will disburse the funds to the participating Project states (Anambra, Bauchi, Edo and Ekiti) through subsidiary financing agreements to support their education program. The credit will support the design and implementation of SEPIP, over the period from 2013 to 2016. The project consists of two components: (a) a results-based component – Component 1 – which would finance the participating states’ program for improving the quality of education, amounting to US$125.0 million (about 83 percent of the total Credit); and (b) Technical Assistance Component which would finance essential advisory, technical, and capacity-building support for the participating states’ program, amounting to US$25 million (about 17 percent of the total Credit).

The proposed project is expected to act as a catalyst to the adoption of results/performance-based approaches by the Government, and scaling-up over time through its own funding. It purports to complement government and other development partner funding to the Participating States focusing on providing quality education, and access to education with equity.

2.2 Project Components

Component 1 – Results-based Component (US$125.0 million)

The aim of this component is to support participating State Governments’ program priorities through selected disbursement-linked indicators focusing on the achievement of tangible and measurable results over the project period as follows: (a) improving teacher effectiveness through deployment and recruitment: (i) to hard-to-staff schools; (ii) in core subject areas; (iii) female teacher recruitment; and (iv) science and technology teacher recruitment; (b) Improving the regular measurement of learning; (c) Improving technical and vocational education; (d) Strengthening School-based management committee’s participation and capacity for supporting school management and accountability.

Based on benchmarking of the Participating States’ education systems on teachers, assessments, EMIS, and school-based management, under Systems Assessments and Benchmarking for Education Results (SABER), key critical findings are as follows. First, with regard to teachers, it is difficult to match teacher skills with student needs, in the absence of incentives to teachers to work at hard-to-staff schools or to teach subjects where there are critical shortages, which point to the need to better allocate teachers across the system. Second, it was found that no large-scale, system-level assessment of student learning outcomes exists at the state level, resulting from system non-alignment, poor enabling context, and quality of assessment. There is need for teachers to be more aware of the National large-scale assessment (NLSA), for results to be widely disseminated, and for UBEC and States to conduct research with learning outcome data. Third, in terms of school-level management, three key findings relate to centralized recruitment of teachers, centralized budgeting and weak participation of SBMCs in school finance, and weak
school accountability, as well as the lack of dissemination of information of student achievement and learning to parents. Accordingly, the need arises for making SBMCs more effective through institutionalization of school-level funding via SBMCs, while at the same time strengthening their accountability to parents (e.g. dissemination of expenditures, student achievement and learning outcomes, etc.). The fourth area of benchmarking related to EMIS, where the major finding was the poor reliability of information, and the lack of accessibility of data to promote accountability and educational research.

Therefore, in formulating their Disbursement-Linked Indicators (DLIs), Participating States focused on teachers issues related to deployment/recruitment, learning assessments, school level management and accountability, as well as technical and vocational education. Participating States’ DLIs center on: (a) teacher deployment in rural areas, and in core subject areas; (b) female teacher recruitment; (c) learning through assessment state testing; (d) improving relevance of technical and vocational education; and (e) strengthening SBMC participation for improving school effectiveness, and management and accountability.

**Component 2 – Technical Assistance (US$25.0 million)**

The objective of this component is to provide technical assistance under two two sub-components: (a) support States towards achievement of DLIs, and the associated institutional capacity strengthening; and (b) support the Federal Government in overall project coordination and in providing the enabling environment in line with national policies, and to ensure sustainability and scaling-up of successful activities in other potential states.

The composition of technical assistance would fall under four broad areas: (a) *educational development* – provision of technical knowledge on teacher management and development, learning assessments (including national large scale assessment), EMIS, quality assurance, capacity-building; school-based management strengthening, and beneficiary assessments; (b) *fiduciary* – strengthening financial management and procurement, and ensuring compliance with the Environmental and Social Management Framework (ESMF); (c) *monitoring and evaluation* – Monitoring, third party validation, tracer studies, public expenditure tracking survey, SABER benchmarking for LGAs, public/private partnership in technical and vocational education, social accountability/third party monitoring; (d) *other* – technical studies to support other states on results-based approaches, management and coordination, and annual program reviews.

**Table 0.1: Education Projects Typology**

<table>
<thead>
<tr>
<th>Activity Type</th>
<th>Typical Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infrastructure Rehabilitation/Expansion</td>
<td>• Not to be part of the project</td>
</tr>
<tr>
<td>Institutional Strengthening</td>
<td>• Design or improvement of strategies, plans and programs</td>
</tr>
<tr>
<td></td>
<td>• Upgrading educational management</td>
</tr>
<tr>
<td>Manpower Development</td>
<td>• Teacher recruitment and training/skill development</td>
</tr>
<tr>
<td></td>
<td>• Improved access</td>
</tr>
<tr>
<td></td>
<td>• Provision of learning and teaching resources</td>
</tr>
</tbody>
</table>
CHAPTER THREE: POLICY, LEGAL AND INSTITUTIONAL FRAMEWORK

There are a number of national, state, and international policies and regulations applicable to the educational sector and environmental and social issues pertaining to the State Education Program Investment Project. This section presents an overview of applicable policies and regulations in addition to an assessment of the institutional framework for the implementation of the project.

3.1 Policy Framework

**National Policy on Science and Technology 1986**

This policy focuses on national development through the effective application of scientific and technologically skills for the production of goods and services and to ensure a better quality of life for the country. The policy addresses the need for a coherent, systematic and comprehensive approach to the determination of technological programs and their implementation.

**National Policy on the Environment 1988**

This Policy aims to achieve sustainable development in Nigeria, and in particular to:

- secure a quality of environment adequate for good health and well being;
- conserve and use the environment and natural resources for the benefit of present and future generations;
- restore, maintain and enhance the ecosystems and ecological processes essential for the functioning of the biosphere to preserve biological diversity and the principle of optimum sustainable yield in the use of living natural resources and ecosystems;
- raise public awareness and promote understanding of the essential linkages between the environment, resources and development, and encourage individuals and communities participation in environmental improvement efforts; and
- co-operate with other countries, international organizations and agencies to achieve optimal use of trans-boundary natural resources and effective prevention or abatement of trans-boundary environmental degradation.

**The National Urban Development Policy 1989**

This policy focuses on developing a dynamic and sustainable system of urban settlements, fostering economic growth, promoting efficient regional development, and ensuring improved standards of living and well-being for all Nigerians.

**National Policy on Education 2004**

This policy addresses the imbalance in the provision of education in different parts of the country with regard to access, quality of resources and girls’ education. It seeks to inculcate national consciousness, unity, training and appropriate skill acquisition as well as mental and physical competence for the survival of the individual and Nigerian society.

**The Transformation Agenda**

The transformation agenda aims to deepen the effects and provide a sense of direction for the administration over the next four years (2011-2015). It draws its inspiration from the Nigeria Vision 20:2020 and the 1st National Implementation Plan (NIP). The agenda is based on a set of priority policies and programmes which when implemented will transform the Nigerian economy to meet the future needs of the Nigerian people.
The four Strategy of the Federal Ministry of Education

The four (4) year strategy of the FME (2011-2015) is derived from the transformation agenda. The plan has six focal areas drawn from existing plans of the FME. The focal areas are access and equity; Standard and Quality Assurance; Strengthening the Institutional Management of Education; Teacher Education and Development; Technical, Vocational Education and Training; and Funding, Partnerships and Resource Mobilization. In the implementation of activities in the focal areas, specific priorities that will make the most and immediate impact and cut across some areas are going to be concentrated on. These include early childhood education, guidance and counselling, learning environment, teacher development and retention, technical and vocational education and training, development of national systems and fund management/partnerships.

3.2 Regulatory Framework

3.2.1 Federal Legislation

Federal Environmental Protection Agency Act 1988

The Federal Ministry of Environment, Housing and Urban Development (FMEH&UD) has taken over the functions of FEPA in administering and enforcing environmental laws in Nigeria. Other responsibilities of the ministry include:

- Monitoring and enforcing environmental protection measures;
- Enforcing international laws, conventions, protocols and treaties on the environment
- Prescribing standards for and making regulations on air quality, water quality, pollution and effluent limitations, atmosphere and ozone protection, control of hazardous substances; and
- Promoting cooperation with similar bodies in other countries and international agencies connected with environmental protection.

To enhance the operations of the ministry the some statutory provisions have been put in place: Table 3.1 summarizes the existing regulations applicable to environmental protection

<table>
<thead>
<tr>
<th>S/N</th>
<th>Regulations</th>
<th>Year</th>
<th>Provisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>National Environnemental Protection (Effluent Limitation) Regulations</td>
<td>1991</td>
<td>The regulation makes it mandatory for industrial facilities to install anti-pollution equipment, makes provision for effluent treatment and prescribes a maximum limit of effluent parameters allowed.</td>
</tr>
<tr>
<td>2</td>
<td>National Environmental Protection (Pollution and Abatement in Industries in Facilities Producing Waste) Regulations</td>
<td>1991</td>
<td>Imposes restrictions on the release of toxic substances and stipulates requirements for monitoring of pollution. It also makes it mandatory for existing industries and facilities to conduct periodic environmental audits.</td>
</tr>
<tr>
<td>3</td>
<td>National Environmental Protection (Management of Solid and Hazardous Wastes) Regulations</td>
<td>1991</td>
<td>Regulates the collections, treatment and disposal of solid and hazardous wastes from municipal and industrial sources.</td>
</tr>
<tr>
<td>4</td>
<td>Harmful Wastes (Special Criminal Provisions etc) Decree No. 42</td>
<td>1988</td>
<td>Provides the legal framework for the effective control of the disposal of toxic and hazardous waste into any environment within the confines of Nigeria</td>
</tr>
</tbody>
</table>
5. Environmental Impact Assessment Act (Decree No. 86). 1992. The decree makes it mandatory for an EIA to be carried out prior to any industrial project development.


8. Urban and Regional Planning Decree No 88 1992. Planned development of urban areas (to include and manage waste sites).


Other provisions are:
- Guidelines and Standards for Environmental Pollution Control in Nigeria 1991;
- Environmental Impact Assessment (Amendments) Act 1999;
- Environmental Impact Assessment Procedural Guidelines 1995;
- National Guidelines and Standards for Water Quality 1999
- National Guidelines on Environmental Audit in Nigeria 1999


The Constitution (Section 18) provides the basis for the national education policy, which through which the government shall eradicate illiteracy by ensuring that there are equal and adequate educational opportunities at all levels. To what extent practicable, the government shall ensure that:

- Free compulsory and universal primary education;
- Free secondary education;
- Free university education; and
- Free adult literacy program


The act gives full protection to privacy, honour, reputation, health and prevention from indecent and inhuman treatment through sexual exploitation, drug abuse, child labour, torture, maltreatment and neglect to a Nigerian Child. It also declares that every child has a right to life, to be allowed to survive and develop.
Universal Basic Education Act 2004
The Universal Basic Education Act provides the legal framework for the implementation of the UBE Programme, which makes basic education not only free but also compulsory. Subsequently, the UBE Commission was established as a way of ensuring the proper implementation of the UBE programme. The commission is responsible for the coordination of the activities of the programme.

National Environmental Standards and Regulations Enforcement Agency (NESREA) Act 2007
To assist the FMEH&UD, now known as the FMEnv, the National Assembly established NESREA to ensure compliance with environmental standards, guidelines and regulations.

3.3 Applicable International Agreements
World Conference on Education for All (WCEFA) 1990
This declaration made in Thailand states that every person – child, youth and adult- shall be able to benefit from educational opportunities designed to meet their basic needs.

World Summit for Children 1990
This further reaffirms the WCEFA declaration by stating that children should have access to basic education by the year 2000. The summit also placed emphasis on the need to raise the level of female literacy worldwide.

Dakar World Education Forum 2000
This was also held as a follow up to the WCEFA, and it set six goals to be attained by 2015. The goals include:

- Expanding and improving comprehensive early childhood care and education, especially for the most vulnerable and disadvantaged children;
- Improving all aspects of the quality of education, and ensuring excellence for all, so that recognized and reasonable learning outcomes are achieved, especially in literacy, numeracy and essential life skills; and
- Ensuring that by 2015 all children, with special emphasis on girls, children in difficult circumstances and from ethnic minorities have access to and complete free and compulsory primary education of good quality.
United Nation Millennium Development Goals 2000

These declaration adopted in 2000 has two of the eight goals devoted to education. They are goal two (to achieve universal primary education) and goal 3 (to promote gender equality and empowerment of women).

Others

Nigeria is also a signatory to the following relevant international conventions:

- The Convention Concerning the Protection of the World Cultural and Natural Heritage, The World Heritage Convention, 1972;
- The Convention on Biological Diversity, 1992;
- The Framework Convention on Climate Change, Kyoto Protocol, 1995;
- International Convention on Economic, Social and Cultural Rights (ICESCR)
- The Dakar Framework for Action 2000
- Convention on Rights of the Child (CRC)
- Convention on the Elimination of all Forms of Discrimination against Women (CEDAW)

In addition, Nigeria also has obligations to protect the environment through various commitments to the African Union (AU), the Economic Community of West African States (ECOWAS) and the Commonwealth. It is also committed through relations with the European Community under the Lome IV Convention.

3.4 Assessment of the Policy and Regulatory Framework

Nigeria has adequate policy and legal provisions for environmental assessment; detailed laws, regulations and guidelines have been developed and serve as the framework for conducting EIAs in both the public and private sectors. However, due to lack of adequate enforcement, the implementation of these rules has been poor. Shortcomings of some policies and regulations are discussed below.

Environmental Impact Assessment (EIA) Act

An identified oversight of this Act lies in the issue of public participation. Under the Act, the public and interested third party stakeholders make an input in the assessment process only during public review, which takes place after preparation of the draft report (which is often not well publicized). Early public participation during scoping and preparation of the ToR will contribute greatly to the success of the project.

Federal Environmental Protection Agency (FEPA) Sectoral Guideline

FEPA’s Guideline covering infrastructural projects deals with both the procedural and technical aspects of EIA for construction projects. The guideline stresses the need to carry out an EIA at
the earliest stage possible. Infrastructure Project EIAs have been conducted in rather loose form, and often taken as a supplementary requirement to overall economic and engineering issues.

**National Policy on Environment**

The policy and its institutional arrangements have not yielded the desired results. This is principally due to weak enforcement; inadequate manpower in the area of integrated environment management; insufficient political will; inadequate and mismanaged funding; a low degree of public awareness of environmental issues; and a top–down approach to the planning and implementation of environmental programs.

**National Policy on Education**

The major problems hindering the actualization of the policy objectives are inadequate manpower; insufficient political will; mismanaged funding; a low public participation in policy formulation; and a top–down approach to the planning and implementation of environmental programs.

**Universal Basic Education Act**

The UBE program implementation has been hindered by poor project supervision, poor funding and lack of commitment from state governments. In addition, critical issues of poor facilities and unbalanced access to education have remained unaddressed.

### 3.5 Institutional Framework

To address the multi-sectoral nature of the components of the project, the following institutions and agencies are deemed relevant.

**Federal Ministry of Education (FME)**

The FME will be responsible for overall coordination of the project. The FME will provide policy guidance and chair the National Project Coordination Committee, which will be responsible for overall coordination and monitoring of project implementation, assisted by UBEC. It will also be responsible for coordinating technical assistance activities at federal level, and help resolve emerging implementation issues.

**Federal Ministry of Finance (FMF)**

The Federal Ministry of Finance will provide support to SEPIP through participation in project annual joint reviews, and be a member of the National Project Coordination Committee.

**State Ministry of Education (for Anambra, Bauchi, Edo and Ekiti)**

The State Ministry of Education for each of the states will have primary responsibility for coordination and implementation of the project in their respective states in conjunction with other agencies and institutions. As the proponent of this project, the ministry has mandate for monitoring and evaluation, quality assessment and control, and coordination, and providing information on a range of procedural and project management issues including procurement, financial management, disbursement, performance benchmarking etc.
It is envisaged that there will be a SPTSU at the respective state Ministry of Education which will be responsible for project implementation and ensuring that all parties perform and carry out their responsibilities as detailed in the ESMP. In this regard, the SPTSUs will rely on the analysis of periodic reports of the respective stakeholders.

**Federal Ministry of Environment (FMEnv)**

The ministry in accordance with its mandatory functions will ensure that the project implementation conforms to the Environmental (Impact) Assessment Act 1992.

**State Ministry of Environment (SMoEnv)**

The respective SMoEnv is charged with establishing guidelines and standards for the management and monitoring of the environment in their states. Furthermore, the ministry is responsible for managing environmental problems caused by or arose within the project areas of influence including waste management and environmental guidance.

**State Waste Management Authority**

Each of the states waste management authority will ensure that wastes resulting from the project are promptly collected and adequately disposed.

**Project Coordination Plan**

The coordination of environmental and social management plan for the project spreads amongst several institutions, each carrying out their functions at the inter-agency level thereby creating the possibility of overlap and duplication of efforts. In order to have a well coordinated approach, it is suggested that the Federal Ministry of Education and State Ministry of Education create a department dedicated to this purpose. The department should have its members drawn from the various agencies mentioned above, and should be the platform for liaising with stakeholders as well as monitoring the execution of project components. To further enhance the environmental capabilities of this department, it is suggested that proficiency in environmental assessments be made a criteria for appointment of members.

**At school level**

At school level, responsibility for environmental management will lie primarily with Head Teachers/Principals, assisted by functional School Based Management environmental officer

**3.6 World Bank Safeguard Policies**

The State Education Program Investment Project has been categorized as B implying that the expected environmental impacts are largely site-specific and that mitigation measures can be designed relatively readily. The environmental assessment for a Category B project usually:

- examines the project’s potential negative and positive environmental impacts,
• recommends measures to prevent, minimize, mitigate, or compensate for adverse impacts, and
• recommends measures to improve environmental performance

The World Bank has 10+2 Environmental and Social Safeguard Policies (see Annex 1) to reduce or eliminate the adverse effects of development projects, and improve decision making. These operational policies include:

- OP/BP 4.01: Environmental Assessment
- OP/BP 4.04: Natural Habitats
- OP 4.09: Pest Management
- OP/BP 4.12: Involuntary Resettlement
- OD 4.20: Indigenous Peoples
- OPN 11.03: Cultural Property
- OP 4.36: Forests
- OP/BP 4.37: Safety of Dams
- OP/BP 7.50: Projects on International Waters
- OP/BP 7.60: Projects in Disputed Areas

**Plus 2**

- OP/BP 4.00: Use of Country System
- OP/BP 17.50: Public Disclosure

The proposed project triggered OP 4.01 (Environmental Assessment) policy. Therefore, the ESMF is the appropriate instrument prepared to address OP 4.01 (Environmental Assessment) policy. In order to fulfill the OP 17.50, the report will be disclosed at two levels; in-country and at World Bank infoshop. In-country disclosure shall be carried out in accordance with the guideline of the FMEnv.

**OP 4.01 Environmental Assessment**

The objective of OP 4.01 is to ensure that projects financed by the Bank are environmentally and socially sustainable, and that the decision making process is improved through an appropriate analysis of the actions including their potential environmental impacts. Environmental assessment (EA) is a process whose breadth, depth, and type of analysis depend on the nature, scale, and potential environmental impact of the proposed project. EA takes into account the natural environment (air, water, and land); human health and safety; social aspects (involuntary resettlement, indigenous peoples, and cultural property); and trans-boundary and global environmental aspects.

OP 4.01 is triggered if a project is likely to present some risks and potential adverse environmental impacts in its area of influence. Thus, in the case of the State Education Program Investment Project, potential negative environmental and social impacts will be very minimal considering that there are no construction sub-project and the project is focused on quality improvement.
CHAPTER FOUR: BASELINE DATA

4.1 Project Area and Location

The States where the project will be implemented are Anambra, Bauchi, Edo and Ekiti (see figure 1 below). Anambra state which came into being on August 27 1991 was created from the old Anambra state and is located in South-Eastern Nigeria, on the eastern plains of the River Niger. It is located between latitude 5° 45N to 6° 45N; and longitude 7° 15E to 7° 45E. The state lies in the Anambra basin. Its boundaries are formed by Delta State to the west, Imo State to the south, Enugu State to the east and Kogi State to the north. The State occupies a landmass of 4,416 square kilometers. The State capital is Awka, while the industrial centre is at Nnewi and the commercial centre at Onitsha.

![Map of Nigeria showing the project States](image)

Figure 4.1: Map of Nigeria showing the project States

Bauchi State was created as a state in 1976 although Gombe State was carved out of the then Bauchi State in October 1996. Bauchi State's southern and northern limits are demarcated by latitudes 9°30' North and 12°30' North, respectively, its western and eastern limits are bounded by longitudes 8°45' East and 11°0' East, respectively. These mark the points of longest and widest stretches of the state. The state's total land area covers about 49,259 sq. km.

Ekiti State was created on 1st October 1996. It is located between latitudes 7°25' and 80°5'N and between longitudes 4°45' and 5°46 east. The state is bound to the south of Kwara and Kogi States while it is bound by Osun State to the west. To the east of Ekiti State is found Edo State, while it is bounded in the south by Ondo State. Ekiti State is a landlocked state, having no coastal boundary.

Edo State is an inland state in central southern Nigeria. Edo State was formed on 27 August 1991. It is bounded in the north and east by Kogi State, in the south by Delta State and in the
west by Ondo State. Edo State lies between longitude 6°04'E and 6°43'E and latitude 5° 44'N and 7°34'N. The State occupies a landmass of 17,802 km².

The main biological, physical and socio-economic characteristics of the 4 states are summarized below.

4.2 Physical Environment of the States/Locations

Climate

Anambra State lies within the humid tropical rainforest belt of Nigeria. Mean daily maximum temperatures range from 27.2°C in October and November to 35°C in March. The mean daily minimum ranges from about 24.7°C in May to about 21°C in September. Relative humidity varies with season with an average value of about 75 – 95%. Bauchi State is dominated by high temperatures. Mean daily maximum temperatures range from 29.2°C in July and August to 37.6°C in March and April. The mean daily minimum ranges from about 11.7°C in December and January to about 24.7°C in April and May. The sunshine hours range from about 5.1 hours in July to about 8.9 hours in November. October to February usually record the longest sunshine hours in the state. Humidity ranges from about twelve per cent in February to about 68 per cent in August.

Edo state climate is humid tropical in the south and sub-humid in the north. The temperature averages about 25 °C (77 °F) in the rainy season, and about 28 °C (82 °F) in the dry season.

Ekiti State has a tropical climate with two distinct seasons. These are the rainy season (April–October) and the dry season (November–March). Temperature ranges between 21° and 28°C with high humidity. The south westerly wind and the northeast trade winds blow in the rainy and dry (Harmattan) seasons respectively. Tropical forest exists in the south, while savannah occupies the northern peripheries.

Rainfall

Annual rainfall is high in Anambra State, ranging from 1,400mm in the north to 2,500mm in the south. The area is dominated by two major seasons – rainy season and dry season. Rainy season ranges from March to October with its peak in July and September, and a short break in August. The dry season ranges from November to February with the influence of harmattan felt between the months of December and January. In Bauchi State, The rainy season months are May to September, when humidity ranges from about 37 per cent to 68 per cent. Monthly rainfall ranges from 0.0mm in December and January, though only traces of less than 0.1mm in February and November, to about 343mm in July. Onset of the rains is often in March while they end virtually by October. In Ekiti, the mean annual total rainfall in the south is about 1800mm while that of the northern part is hardly over 1600mm. Edo State has an average rainfall ranging from 150 cm (59") in the extreme north of the State to 250 cm (98") in the south. The dry season lasts from November to April with a cold harmattan spell between December and January.

Temperature
Average temperature in Anambra State range of about 25 – 27.50°C, and mean annual sunshine hours of about 1750 hours. In Bauchi State, temperatures are, as would be expected, generally high in the state. Mean daily maximum temperatures range from 29.2°C in July and August to 37.6°C in March and April. The mean daily minimum ranges from about 11.7°C in December and January to about 24.7°C in April and May. The sunshine hours range from about 5.1 hours in July to about 8.9 hours in November. Indeed, October to February usually record the longest sunshine hours in the state.

For Edo State the temperature averages about 25 °C (77 °F) in the rainy season, and about 28 °C (82 °F) in the dry season.

In the south of Ekiti, the mean monthly temperature is about 28°C with a mean monthly range of 3°C while the mean relative humidity is over seventy five per cent. However, in the northern part of the state, the mean monthly temperature may be over 30°C while the mean monthly range may be as high as 8°C. The mean monthly relative humidity here is about 65 per cent.

**Geology**

Anambra State lies in the Anambra Basin, the first region where intensive oil exploration was carried out in Nigeria. Anambra basin has about 6,000 m of sedimentary rocks. The sedimentary rocks comprise ancient Cretaceous deltas, somewhat similar to the Niger Delta, with the Nkporo Shale, the Mamu Formation, the Ajali sandstone and the Nsukka Formation as the main deposits. On the surface the dominant sedimentary rocks are the Imo Shale a sequence of grey shales, occasional clay iron stones and Sandstone beds. The Imo Shale underlies the eastern part of the state.

Bauchi is part of the crystalline rock area in central northern Nigeria with hill ranges that are developed on basement complex rocks, in an area which is also characterized by extensive plateau surfaces and volcanic extrusions. There is also a central high plain (of the Hausa land) area, belonging to the Kerri Kerri and Gombe sandstone and shale, of Tertiary Age. Bauchi town lies within the undifferentiated basement complex with older granites (out-crops) and younger granite out-crops.

Edo state is geologically characterized by deposits, laid during the tertiary and cretaceous periods (Reyment,1965). The various formations in the geology of Edo State are the Benin, Bende Ameki, Ogwashi-Asaba, Imo and Nsukka formations.

Ekiti State is underlain by metamorphic rocks of the Pre-Cambrian basement complex, the great majority of which are very ancient in age. These basement complex rocks show great variations in grain size and in mineral composition. The rocks are quartz gneisses and schists consisting essentially of quartz with small amounts of white micaceous minerals. In grain size and structure, the rocks vary from very coarse grained pegmatite to medium grained gneisses. The rocks are strongly foliated and they occur as outcrops especially in Efon Alaaye and Ikere Ekiti areas.

**Topography**

Anambra State falls into two main landform regions: a highland region of moderate elevation that covers much of the state south of the Anambra River, and low plains to the west, north, and east of the highlands. The highland region is a low asymmetrical ridge or cuesta in the northern
portion of the Awka-Orlu Uplands, which trend roughly southeast to North West in line with the geological formations that underlie it. It is highest in the southeast, about 410m above mean sea level, and gradually decreases in height to only 33m in the northwest on the banks of the Anambra River and the Niger.

Bauchi State lies generally at an altitude of about 600m above sea level, being part of the central Nigeria highlands and Jos Plateau complex. Bauchi has a western high land area of hill ranges, including the northern edges of the Jos Plateau complex and central high plain (punctuated by isolated hills in several places, and reach heights of 798.5m on the Lamurde hill, and 816.4m on the Ligri hill.

The topography of Edo state is characterized by 2 distinct features; a sandy plain Benin lowlands and swamp forest (areas of marsh vegetation which lie to the south of the state.

Ekiti State, a purely upland area is rugged with undulating areas and granitic outcrops in several places. The notable ones among the hills are Ikere Ekiti Hills in the southern part of the state; Efion Alaaye Hills to the western boundary of the state and the Ado Ekiti Hills in the central part of the state. Most of these hills are well over 250m above sea level.

Vegetation and Soils

Drainage

Anambra is drained by the Northern flowing Anambra River, the east flowing Mamu River and the west-flowing rivers, the Idemili, the Nkisi, and the Oyis and Ulasi river. With the exception of Ulasi river, all the rivers in Anambra state empty into the River Niger. River Niger forms the western boundary of the state and constitutes the local base level for the rivers. The exception, Ulasi River rises near Dikenafai in Imo State, flows northward to Ozubulu in Anambra State and then turns round in a wide loop and heads for the Atlantic Ocean.

Bauchi state is drained by several river systems. The dominant one is River Gongola which originates in the Jos Plateau area, southwest of Bauchi State. It traverses, in a southwest-north east direction through the southern LGAs of the state. It has numerous headwaters and tributaries within the state. They include Rivers Surr, Lere, Maijuju, Rafin Bagel, Gangala and Gubi in the southwest part; Rivers Guji, Yuli, Ruhu, Dukut and Panana in the south and south-east parts. The western and northern parts of the state are drained by the Rivers Bunga and Jama'are systems.

Edo State is well drained by natural drainage, with rivers such as Ikpoba and Osse while for Ekiti State, there is no major river. However, the state serves as the watershed and source region for three major rivers that flow into the Atlantic Ocean. These are the Rivers Osun, Owena and Ogbese. Other rivers are Ero, Ose and Oni.

4.3.Socio-Economics

Demography

The population estimates for the 4 project states based on 2006 population census are shown in Table 4.1.
### Table 4.1: Population Figure of the States

<table>
<thead>
<tr>
<th>State</th>
<th>Persons</th>
<th>Males</th>
<th>Females</th>
<th>Sex Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anambra</td>
<td>4,182,032</td>
<td>2,174,641</td>
<td>2,007,391</td>
<td>108.3</td>
</tr>
<tr>
<td>Bauchi</td>
<td>4,676,465</td>
<td>2,426,215</td>
<td>2,250,250</td>
<td>107.8</td>
</tr>
<tr>
<td>Edo</td>
<td>3,233,366</td>
<td>1,633,946</td>
<td>1,599,420</td>
<td>101.1</td>
</tr>
<tr>
<td>Ekiti</td>
<td>2,384,212</td>
<td>1,212,609</td>
<td>1,171,603</td>
<td>103.5</td>
</tr>
</tbody>
</table>

Source: Federal Government printer, 2007

**Economy**

The economic climate in Anambra State is highly favourable. A conducive combination of large markets, abundant skilled labour force, considerable entrepreneurial ability, and easy access to capital and natural resources prevail in the state. Almost all the urban centres possess very busy and virile markets. Anambra State has vibrant entrepreneurial activities in commerce and industry. The Nnewi Industrial axis, popularly referred to as “the Japan of Africa” (comprising Nnewi, Onitsha and Ozubulu) is renowned in this subsector. This is due to its large-scale fabrication of machines, machine tools, motor parts and accessories etc. Onitsha, which has the largest market in West Africa, also houses an electronic Stock Exchange.

The economy of Bauchi state is predominantly rural and agricultural. About eighty percent of the people in most of the LGAs are still dependent on farming. Maize, rice, cassava, groundnut and cotton cultivation is widespread, largely in small peasant farms, but also in some large farms owned by a few big farmers. In recent years, the Agricultural Development Project (ADP), established in the state through World Bank assistance, as well as the Hadejia-Jama'are RiverValley project, has helped to increase agricultural production and rural development generally.

Apart from her contributions in agriculture, the economy of Edo State is boosted by the presence of crude oil deposits which accounts for her high per capita income relative to many other states in Nigeria.

**Agriculture**

Anambra State has stretches of fertile land on the plains in Ogbaru, Ayamelum, Oyi, if Awka and Orumba LGAs. These areas support healthy crops of yam, maize, cassava, rice, and vegetables. The Ifite Ogwari Dam on the Anambra River provides water for 3,500hectare irrigated land at Omor for the cultivation of rice, maize, and out-of-season vegetables. The Omor rice farms, together with the OgbojiEzira rice lands of Orumba, and Odoekpe rice fields in Ogbaru, earn for Anambra State the third richest rice potentials area in Nigeria. Large private farms, such as the Ekenedilichukwu Farms, Arnak Farms, and Pokobros are located in the rich hydromorphic soil regions of Anambra and Ayamelum LGAs.

Animal rearing and production are important in Bauchi state. Among the animals are cattle, goats, sheep, donkeys and pigs. Poultry is also significant. By 1988, Bauchi State had an estimated 1.25 million out of Nigeria's total of 4.73 million cattle; 2.1 million out of Nigeria's 12.7 million sheep; 20,000 out of Nigeria's 730,000 donkeys and 67,000 out of Nigeria's total of 923,000 pigs. There is substantial expanse of land for farming purposes. Indeed, it was estimated that by 1986, only about twenty per cent (some 11,090 sq. km) of the usable arable land was
actually cropped in the state. The numerous dams and the agro-service system for the supply of farm inputs and services to farmers and fishermen provide suitable incentives for further investments in the agricultural sector.

**Edo State** is well known in Nigeria for her contributions in agricultural production with major food crops such as cassava, yam and maize. It also produces in commercial quantity cash crops including rubber, cocoa and cashew nut.

In **Ekiti State**, agriculture is the dominant occupation of the people providing employment and income for over 80 percent of the population. It is also responsible for over 90 percent of the state's Gross Domestic Product (GDP). The main revenue yielding tree crops are cocoa, oil palm and timber, the latter including both the native and exotic species. **Infrastructural Facilities**

**Education:**

The people of Anambra the state place premium on education. Town unions, private individuals, and associations, being part of voluntary agencies, have played active roles in the development of educational infrastructure in the state. Although state control of education has been the policy, private participation has also been encouraged. Besides, there is a gradual return of some secondary schools to their previous voluntary agencies (missions). Private nursery, vocational and commercial education has been on the increase. There are now 1367 public and 507 private primary schools in the state in 2007/2008 session, with a total enrolment of about 513,421 pupils in public school and 57,189 private schools. There is a total of 429 public junior secondary schools with an enrolment of about 172,702 in the 2007/08 session and a total of 259 private junior secondary schools with an enrolment of 22605. The state now has three universities: a Federal university Nnamdi Azikiwe University, Awka, with its teaching hospital at Nnewi; a state university with two campuses, one at the former state polytechnic, Uli; and a private university, Madona University, Onitsha, temporarily located at Okija, and owned by the Roman Catholic Church.

In **Bauchi State**, educational facilities at the different levels abound. Among the major institutions of higher learning are the Abubakar Tafawa Balewa University (Federal) in Bauchi, College of Education in Azare; Bauchi State Polytechnic and Federal Polytechnic in Bauchi; and the Teacher's College, Toro, which is a private (Mission) institution established in 1928 as the first higher educational institution in the state and the second in the entire northern states of Nigeria. There is also the Bauchi State School of Agriculture and Animal Husbandry in Bauchi town. There are a total of 2601 public primary schools with an enrollment of 682,836 in 2007/08 session while there are a total of 293 private primary schools with an enrollment of 56,334 pupils. There are a total of 245 public junior secondary schools with an enrollment of 69,847 and 124 private junior secondary schools with an enrollment of 10,968 in the 2007/2008 academic session.

For **Edo State**, education institutions abound. The highest educational institutions include: four universities (University of Benin, Ambrose Alli University, Igbinedion University and Benson Idahosa University); one College of Education at Ekhiadolor, Benin City; The Institute of Continuing Education, Benin City; one Polytechnic at Auchi and the Institute of Physical Education at Afuze. There are about 1290 public primary schools and 613 private primary schools in the State.
Education is the most visible industry of the people of **Ekiti State**, hence the people are in the forefront of educational development. There are 1153 public primary schools with an enrollment of 167,095 pupils in 2007/08 session and 321 private primary schools with an enrollment of 10,848 pupils in the same session. There is a total of 229 public junior secondary schools with an enrollment of 42,423 in 2007/2008 while there is a total of 100 private junior secondary schools with an enrollment of 6,514 students. Four State Unity Secondary Schools are situated at Ado, Ikere, Oye and Usi; two Federal Unity Schools have also been established while there are four Technical Colleges in Ado, Ijero, Ikole and Otun. There are some schools established to cater for specific purposes such as the Special School for the Disabled Children at IdoEkiti, five Nomadic Schools dotted across the state and four Women Education Centres which are under the control of the local governments.

**Roads and transportation**

**Anambra** state is served by four major road networks. The Onitsha Enugu dual carriageway is a gateway to the west and north of the country. The Onitsha Owerri road, a very busy highway, is the main artery to the eastern states. There are plans to dualise this route. The Onitsha Nnewi Okigwe road and the Onitsha Adani road render the rest of the state accessible to the river port and nodal town of Onitsha. Most of the road transport services have their headquarters at Onitsha. The main waterway is the River Niger. Onitsha is the largest river port in the country. Vessels can travel from Onitsha eastward up to Yola on the River Benue, westward to Yelwa on the Niger, and southward to the Delta ports of Brass, Warri and Burutu. The state is not served by rail.

**Bauchi**, State is very well served with road links, both within the various parts of the state and with other parts of the country. In particular, it is connected with and traversed by three main national trunk roads. The Kuru to Maiduguri eastern rail line extension in Nigeria passes through Bauchi State, connecting several settlements, including Lere, Bauchi, and on to Gombe and Bajoga in Gombe State. The state capital is served by an airstrip for light aircraft.

Transportation in **Edo** State is mainly by road and, to some extent, by air and water. On road transportation, Edo State is transversed by a network of Federal (Trunk A and E), State (Trunk B), township and rural earthroads (Edo State, 1999). Consequently, the State is well linked to other parts of the country, particularly Lagos, Abuja, Warri, Onitsha, Ibadan, et cetera. Good township roads are found in Benin, Ekpoma, Igarra, Ibillo and Ubiaja; the roads aid intrasettlement movements.

**Ekiti** state has a good network of roads that link the major urban centres with AdoEkiti, the state capital. There are also road networks linking the headquarters of the local government areas. DFRRI contributed in the opening up of rural areas through road construction, however, most of the DFRRI roads are not tarred but most of them are motorable all the year round. Also, PTF assisted substantially in the development of roads in Ekiti State. The World Bank has also been involved in constructing inter-settlement roads in the state.

**Communication**
In Anambra state, postal and telephone services are available in almost every community. At least one GSM provider especially MTN and GLO is available in most of the communities. The mass media and major information organs are the State Broadcasting Services at Awka; Minaj Broadcasting and Television Service at Obosi (privately owned); the Newspaper and Printing Corporation; and the publishers of the National Light and the Spokesman newspapers.

The Bauchi State capital and several of the other settlements in the state are served by both postal and st telecommunication facilities, while the state's radio and television networks cater for the needs of people of the state.

Communication in Edo State is by email, fax, telephone, post offices, courier services, daily newspapers, radio and television. The state owned newspaper is called The Observer

Telecommunication infrastructures are available at Ekiti State. The Nigerian Postal Service (NIPOST) has its state headquarters at AdoEkiti while there are zonal offices in Ikere, Ikole, Ode and Ijero. Also, with the spread of GSM services in Nigeria, the majority of the communities in the State are connected with telecom services.

Healthcare Facilities

In Anambra State, there are over thirty two government owned hospitals, with some LGAs having more than one, in addition to many private hospitals and clinics. A School of Nursing and Midwifery is located at Nkpor, near Onitsha. Four Comprehensive Health Centres for secondary healthcare have been established in the state. The University of Nigeria Teaching Hospital is located at Abagana; with three branches of the Nnamdi Azikiwe University Teaching Hospital sited at Neni, Ukpo, and Isuochi.

Bauchi state has several government general hospitals in each of the LGA headquarters; Primary Health Centres (PHCs); Dispensaries; Urban Maternity Centres and Maternal and Child Health (MCH) Clinics; Comprehensive Health Centres (CHC) and Tubal Legation (TBL) Clinics. There are also several private hospitals, clinics, maternities, pharmaceutical shops and dispensing clinics; especially in Bauchi and Azare, which provide health care to the people in the state. There are also a Specialist Hospital, an in Eye Clinic, a Nutrition Unit and a Dental Centre, all in Bauchi, and Mobile Clinics which serve the rural areas of the state. In addition, there are over 120 dispensaries; 225 leprosy clinics; over fifty-five MCH clinics built and owned by the LGA councils.

The Edo state health care delivery system comprises three Teaching Hospitals (two in Benin City and one in Irrua), government hospitals, maternity centres and dispensaries. Notable private hospitals in Edo State are Osula and Ekpen in Benin City, Nazareth in Fugar, Faith and Notre Dame in Jattu in Etsako and Alafia Clinic in Igarra, Auchi and Ibillo.

In Ekiti State, various categories of health and medical facilities are available to the people of the state. These health facilities belong to the Federal, State and Local Governments, religious organisation, and private individuals. The state Government hospitals are classified into three viz: State Specialist Hospital, General Hospitals and District Hospitals. There are about one specialist Hospital, nine General and four District Hospitals in the State. There are about three
comprehensive Health Centres in addition to about 250 primary healthcare (PHC) establishments such as Basic Health Centres, Maternity Centres and Dispensaries found all over the state.

Water sources
In Anambra State, the statistics on water shows that about half the population of the state does not have access to public water supply, while there is a strong dependence by a large number of householders on boreholes and rain water. Water supply is very inadequate especially in urban centres such as Onitsha, Nnewi, Awka and Ekwulobia. The worst hit areas are found in Awka South, Ihiala, Ogbaru, Orumba South, Nnewi North and Onitsha North. Consequently, much private effort goes into the provision of water using boreholes and water storage tanks. Water vending is a lucrative business in Anambra State.

In Ekiti, the State Water Corporation has connected all major urban centres, and even villages, to different water schemes in the state. The main water scheme is the Ero River Water Project which serves over sixty two towns and villages. The Ose River Water Supply Project also supplies potable water to Ekiti East and Ikere LGAs. There is also the Efong Alaaye water scheme which caters for the western side of the state.

Electricity Supply
The provision of electricity in the rural areas is being vigorously pursued through the Anambra State Directorate for Rural Development (SDRD). Electricity projects completed have been commissioned at Umuoji, Abatete and Nsugbe, while fifty other communities have their projects at various stages of completion. Households with serious needs for electricity are found in Anambra West, Anambra East and Ogbaru.
Over time, there has been marked improvement in the provision of electricity in Ekiti State.

Tourism and Cultural Resources
Anambra State is endowed with several natural features of scenic beauty, as well as historical and cultural attractions, upon which a viable tourist industry can be based. These include the Agulu, Iyiocha/Amaokpala, Ezu Nawfia, and Obutu Lakes, the Ogbunike and Ajali caves, the Otuocho sand beach, and NankaAgulu gullies. The cultural resources in Anambra State are the Nri Odinani a Museum established by the Nri Community, the Enugwu Ukwu and Igboukwu Museums, and the Asele Arts gallery at Nimo. Bauchi State is very rich in tourism and recreational facilities. They include numerous historical monuments; scenic resorts, water sports and recreational attractions: wildlife and game reserves and traditional festivals. The Yankari National Park, and the Lame-Burra Forest and Game Reserve are found in the state.

The main tourist centre in Ekiti State is the Ikogosi Warm Springs where the state government has constructed guest houses for visitors’ comfort. The warm spring has a swimming pool of warm water. A zoological garden is also attached to this tourist centre. Other tourist attractions are the Fajuyi Memorial Park at Ado Ekiti, Olosunta Hills at Ikere Ekiti and the Ipole/Iloro Water Falls.
Waste Management

Waste collection is a major challenge in many of the cities in Anambra State. The Anambra State Environmental Protection Agency is the main authority responsible for waste management in the State. There is a high cost associated with the operations and maintenance of the waste management services especially as over 70% of households in the State attest to not paying any fees for waste management services.
CHAPTER FIVE: POTENTIAL ENVIRONMENTAL AND SOCIAL IMPACTS

The project will enhance the economic, social and political development of the participating States through the facilitation of improved access to primary and junior secondary education, teacher recruitment and deployment especially female teachers and in science and technology areas, and provision of teacher training and local skills development and education management.

Since all sub-activities and beneficiary schools are yet to be identified, the impact assessment is based on potential impacts from anticipated project activities. Site specific project impact would be detailed for each site before the commencement of activities as part of the Environmental and Social Management Plan implementation.

A summary of the main project activities and their potential impacts on the environment is shown in Table 5.1. The impact of each activity is assessed qualitatively through the relevant environmental and social media which are:

- Environmental media - Air, Water, Soil and Vegetation
- Social media - Community Structure, Livelihood, Community Infrastructure, Population/Demographics, Public Health, and Land Use

In analyzing the impacts, three criteria were used:

- The Severity of the impact on the existing environment (High, Medium, or Low)
- The Likelihood of the impact occurring (High, Medium, or Low)
- The Effect of the impact, whether beneficial (+) or adverse (-)

5.1: Environmental Impacts

Generally, there will be no major environmental implications given that project activities focus on education quality and systems improvements.

Construction and Rehabilitation Phase

The project activities will not involve any construction or rehabilitation civil works thus, there will be no negative impacts on the environment.

Operation Phase

Water Resources

Considering the nature of the project, it is not likely that any of the project components will impact on water resources.

Air Pollution

Also, considering the nature of the project, it is unlikely that any of the project components will lead to air pollution. However, if the school administrators deploy funds from school grants to purchase of laboratory and workshop equipment, the equipment may emit air pollutants which may increase respiratory disorders e.g. nasal discomfort as a result of inhaling air particles from extractor fan.

Solid Waste
Considering that the project is on quality and systems improvement, limited waste materials may be generated as a result of management activities. Thus there could be illegal dumping of solid waste in drainage channels which may result in blocked drainages and cause flooding, while improper use and disposal of sanitary facilities in the schools can attract pests and disease vectors.

*Visual intrusion*
It is unlikely that any of the project components will cause any visual intrusion.

5.2 **Social and Health Impacts**
Perceived socio-economic were identified from key socio-economic indicators (livelihood, community structure, public health, land use and population) and the projects components at all level of the project implementation.

*Construction and Rehabilitation Phase*
The project does not involve any construction or rehabilitation there is no implication for the environment.

*Operation Phase*

*Teacher Deployment - Improving teacher Availability in Rural Areas*
The impacts of the project on educational development are largely positive. The provision the recruitment and deployment of teachers in the States especially in the rural areas will help improve the quality of education and enhance the completion rate and students/pupils performance in both primary and secondary schools especially at junior secondary level.

*Teacher Recruitment and Training*
The project implementation will involve recruitment of teachers especially in core subject areas and will provide training opportunities and learning materials for teachers. This will improve the quality of education at both the basic and secondary level. There is also the likelihood that the training opportunities will lead to improve teaching quality, job satisfaction, improved livelihood as well as standard of living among teachers. The general public health of targeted areas would also be positively impacted.

*Learning Assessment*
The project will lead to improvement in the measurement of student learning outcomes. This will help enhance assessment in numeracy and literacy for Grades 3 and 5; and in English, Mathematics for Grade 11. This will enhance the performance of pupils/students especially in and increase quality of education

*Improved Governance*
The project will strengthen the governance and management of schools especially through the School Based Community Management System. It will also enhance government systems for the planning, delivery, monitoring and resourcing of education in participating States. This could cause a significant improvement in the educational sector of the states.

*Improved Technical and Vocational Education*
The project will improve the skill level and technical competence of graduates of technical colleges through partnerships. A plan will be developed in this regard. With this the skill level of Voc Ed graduates and subsequently household incomes and livelihoods will be improved.
Table 0.1: Summary of the Potential Environmental and Social Impacts of the SEIP

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Teacher Deployment</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Community Structure</td>
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<td>NA</td>
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<td>NA</td>
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<td>NA</td>
<td>Livelihood</td>
<td>Increase in income</td>
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<tr>
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<td>None</td>
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<td>NA</td>
<td>NA</td>
<td>Community Infrastructure</td>
<td>Improved teacher availability in rural areas especially female teachers, Improved educational quality, improved completion rate</td>
<td>H</td>
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<tr>
<td>Soil</td>
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<td>None</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>Vegetation</td>
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<td>NA</td>
<td>NA</td>
<td>Land Use</td>
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<td></td>
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<td>Population/ Demographics</td>
<td>Increased population and attendant crimes due to movement of more people into the communities</td>
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<td>L</td>
<td>-</td>
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<tr>
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<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Community Structure</td>
<td>None</td>
<td></td>
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</tr>
<tr>
<td>Teacher Recruitment and Training</td>
<td>Groundwater</td>
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<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Livelihood</td>
<td>Training opportunities, increased income</td>
<td>M</td>
<td>M</td>
<td>+</td>
</tr>
<tr>
<td>Teacher Recruitment and Training</td>
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<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Community Infrastructure</td>
<td>Improved teacher availability in core subjects especially female teachers, Improved educational performance especially increased completion rate and students competency</td>
<td>H</td>
<td>H</td>
<td>+</td>
</tr>
<tr>
<td>Teacher Recruitment and Training</td>
<td>Vegetation</td>
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<td>Possible increase in population</td>
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<tr>
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<td></td>
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<td>NA</td>
<td>Livelihood</td>
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<td>M</td>
<td>+</td>
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</tr>
<tr>
<td>Soil</td>
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<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Community Infrastructure</td>
<td>Improved educational sector</td>
<td>M</td>
<td>M</td>
<td>+</td>
</tr>
<tr>
<td>Vegetation</td>
<td>None</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Public Health</td>
<td>None</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Land Use</td>
<td>None</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Population/ Demographics</td>
<td>None</td>
<td>NA</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Improved Technical and Vocational Education</th>
<th>Air</th>
<th>None</th>
<th>NA</th>
<th>NA</th>
<th>NA</th>
<th>Community Structure</th>
<th>None</th>
<th>NA</th>
<th>NA</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil</td>
<td>None</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Livelihood</td>
<td>Improved technical and vocational education will enhance the skill level and competency of graduates and thus enhance income and livelihoods</td>
<td>H</td>
<td>H</td>
<td>+</td>
</tr>
<tr>
<td>Vegetation</td>
<td>None</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Community Infrastructure</td>
<td>Improved educational sector</td>
<td>M</td>
<td>M</td>
<td>+</td>
</tr>
<tr>
<td>Land Use</td>
<td>None</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Public Health</td>
<td>None</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Population/ Demographics</td>
<td>None</td>
<td>NA</td>
<td>NA</td>
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<table>
<thead>
<tr>
<th>Improved Governance</th>
<th>Air</th>
<th>None</th>
<th>NA</th>
<th>NA</th>
<th>NA</th>
<th>Community Structure</th>
<th>May affect the running and leadership of communities as some leaders may be in SBMCs</th>
<th>M</th>
<th>M</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Groundwater</td>
<td>None</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Livelihood</td>
<td>Training opportunities for the members of SBMCs will enhance livelihoods</td>
<td>M</td>
<td>M</td>
<td>+</td>
</tr>
<tr>
<td>Soil</td>
<td>None</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Community Infrastructure</td>
<td>Improved educational outcomes based on the management plans</td>
<td>H</td>
<td>H</td>
<td>+</td>
</tr>
<tr>
<td>Vegetation</td>
<td>None</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>Public Health</td>
<td>None</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Land Use</td>
<td>None</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Population/ Demographics</td>
<td>None</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| School Improvement Grants | Air | Minor school repairs and maintenance | L | L | _ | Community Structure | None | NA | NA | NA |
### Environmental & Social Management Framework

<table>
<thead>
<tr>
<th>Environmental Component</th>
<th>Livelihood</th>
<th>Community Infrastructure</th>
<th>Public Health</th>
<th>Land Use</th>
<th>Population/ Demographics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Groundwater</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Soil</td>
<td>None</td>
<td>Improved educational quality</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Vegetation</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**Note:** NA is for “Not Applicable”
CHAPTER SIX: ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

An Environmental and Social Management Plan (ESMP) defines project-specific environmental and social mitigation measures, monitoring programmes, and responsibilities based on the analysis of potential environmental and social impacts of the project. This ESMP is intended to ensure efficient environmental management of these activities. It includes the following sections:

- the potential environmental and social impacts,
- the proposed mitigation measures,
- implementation arrangement,
- responsibilities for implementing mitigation and monitoring measures;
- capacity building needs; and
- implementation cost estimate

6.1 Mitigation Measures

This includes measures that can reduce the negative impacts associated with sub-project activities. Potential impacts and the appropriate mitigation measures are identified in Table 6.1. The table indicates the areas to which the potential impact applies. In addition, mitigation measures are identified as either social or physical measures. The measures serve as the basis for the cost estimates. During implementation, the mitigation costs will be included in the bid for sub-project activities.

Table 0.1: Summary of Environmental Mitigation Measures

<table>
<thead>
<tr>
<th>Physical</th>
<th>Potential Impacts</th>
<th>Recommended Mitigation Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noise</td>
<td>Noise not expected considering that the project focuses on education quality and systems improvement</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Air Quality</td>
<td>Air quality will not be impacted considering that the project focuses on education quality and systems improvement and construction or rehabilitation is not involved. However, minor repairs and maintenance operation may led to minimal pollution.</td>
<td>Adopt proper waste management strategy, Prohibit waste combustion on site, Workers should use PPEs (nose masks)</td>
</tr>
<tr>
<td>Soil</td>
<td>Soil will not be impacted considering that the project focuses on education quality and systems improvement and construction or rehabilitation is not involved.</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Water Quality</td>
<td>Water quality will not be affected considering that the project focuses on education quality and systems improvement</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Biological Resources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vegetation</td>
<td>Vegetation will not be affected considering that the project focuses on education quality and systems improvement and construction or rehabilitation is not involved</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
### Potential Impacts

<table>
<thead>
<tr>
<th>Wildlife</th>
<th>Wildlife will not be impacted.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetlands</td>
<td>Not to be impacted</td>
</tr>
<tr>
<td>Farmlands and Grazing Areas</td>
<td>Since there is no new school construction, loss of farmland and grazing areas is not expected.</td>
</tr>
<tr>
<td>Solid/Hazardous Waste Management</td>
<td>Since there is no construction activity, solid waste solid waste and waste containing potentially hazardous materials (e.g. asbestos) will not be generated. Waste generation may only occur during operation phase through use of papers and materials purchase with school grants.</td>
</tr>
</tbody>
</table>

### Recommended Mitigation Measures

- Not Applicable
- Not Applicable
- Not Applicable
- Quick sorting, collection and disposal of waste removed from the sites in accordance with applicable regulations.
- Employ services of registered waste management company
- Conduct an awareness raising campaign for the community and school participants (pupils, students, teachers, etc.)
- Develop, produce and circulate leaflets to educate people of dangers of sexually transmitted diseases and how to prevent them.
- Print posters to educate people on HIV/AIDS.

### 6.2 Implementation Arrangement

The key stakeholders required to implement the SEPIP are identified in Figure 6.1 including their relationships and reporting responsibilities.

*Figure 0.1: SEPIP Implementation Arrangement*
An Environmental and Social Management Specialist (ESMS), seconded from either SMoEnv or SEPA to the SPTSU will be responsible for the implementation and monitoring of the ESMF.

The FPSU and SPTSU will achieve the following objectives:

- propose management rules and specific measures that are compatible with sustainable development while implementing the project,
- promote awareness of environmental protection, and
- propose concrete means of applying the ESMP.

The ESMS will develop a monitoring plan to ensure ESMP implementation occurs in a structured manner. On behalf of the SPTSU, the ESMS will implement the monitoring plan and submit periodic environmental monitoring reports to SMoEnv and SEPA. Each report will indicate that members of the SPTSU should be contacted for clarification of issues.

The World Bank (WB)

The World Bank has the overall responsibility to ensure that its safeguards policies are complied with. In addition, the WB is responsible for the final review and clearance of the ESMF.

Capacity Strengthening for ESMP Implementation

Institutional strengthening will be required for the FPSU and SPTSU to effectively carry out the environmental and social management responsibilities for sub-project implementation. Capacity building will encompass FPSU and SPTSU and other state agencies involved in sub-project implementation.

An assessment of training needs and the development of a training strategy plan need to be conducted as an initial implementation activity which will, inter alia, determine and confirm whether the training programme proposed will suffice or is required.

Proposed training for the ESMS are as follows:

- Environmental and Social Management Process.
- Use of Screening form and Checklist
- Preparation of terms of reference for carrying out EA
- Design of appropriate mitigation measures.
- Review and approve EA reports
- Public consultations in the ESMF process.
- Monitoring mitigation measures implementation.
- Integrating ESMP into sub-projects implementation.

6.3 Monitoring Plan

Considering that the project does not have major environmental implications given that project activities focus on education quality and systems improvements monitoring requirements for the implementation of the ESMP will have limited focus on environmental issues but will be mainly focused on the social and health impacts of the project. The monitoring plan establishes appropriate criteria to validate the predicted impacts and ensure that any unforeseen impacts are detected and the mitigation adjusted where needed at an early stage. The plan will ensure that mitigating measures are implemented during renovation, upgrading and maintenance. Specific objectives of the monitoring plan are to:

- check the effectiveness of recommended mitigation measures;
- demonstrate that sub-project activities are carried out in accordance with the prescribed mitigation measures and existing regulatory procedures; and
- provide early warning signals whenever an impact indicator approaches a critical level.

**Monitoring Procedure**

The ESMS will prepare a long-term monitoring plan that will encompass clear and definitive parameters to be monitored for each sub-project. The plan will take into consideration the scope of development, the environmental and social sensitivity and the financial and technical means available for monitoring. It will also identify and describe the indicators to be used, the frequency of monitoring and the standard (baseline) against which the indicators will be measured for compliance with the ESMP.

A number of indicators would be used to determine the status of the affected environment:
- Has the pre-project human and natural environmental state been maintained or improved?
- Has the effectiveness of the ESMF technical assistance, review, approval and monitoring process been adequate to pre-empt and correct negative impacts inherent in sub-projects?
- Environmental Indicators: vegetation loss; land degradation; regulatory compliance.
- Social indicators: population incomes; traffic, changes in school attendance and performance.

**6.4 ESMP Cost Estimate**

It is recommended that at least 2.5% of the total budget (USD150 Million) for the project (result based component) should be allocated to manage environmental and social concerns. It is expected that the ESMP will cost USD$375,000. This involves the cost for mitigation, management, capacity strengthening and monitoring.
CHAPTER SEVEN: PUBLIC CONSULTATION

The FPSU and SPTSU have the responsibility to effectively engage stakeholders to successfully implement the project and achieve the stated objectives for the benefit of all. The public consultation will aim to assist the government in learning about the interests of, establishing a systematic dialogue with, and earning the trust of the surrounding residents and other stakeholders.

7.1 Objectives

This plan provides a framework for achieving effective stakeholder participation and promoting greater awareness and understanding of issues so that the project is carried out effectively within budget and on-time to the satisfaction of all concerned. To ensure effective implementation of this plan, the FPSU and SPTSU shall be committed to the following principles:

- promoting openness and communication;
- ensuring effective stakeholder participation in the development of the project;
- increasing public knowledge and understanding of the project implementation process;
- using all strategies and techniques which provide appropriate, timely and adequate opportunities for all stakeholders to participate; and
- evaluating the effectiveness of the engagement plan in accordance with the expected outcomes.

7.2 Stakeholders

Government Agencies
- Federal Ministry of Education
- Federal Ministry of Finance
- Universal Basic Education Commission
- Anambra, Bauchi, Edo and Ekiti States Ministry of Education
- Anambra, Bauchi, Edo and Ekiti States Ministry of Education
- Anambra, Bauchi, Edo and Ekiti State Secondary Educational Board
- Anambra, Bauchi, Edo and Ekiti State Primary Educational Board
- National Union of Teachers (NUT)
- Nigeria Education Research and Development Council (NERDC)
- National Board for Technical Education (NBTE)
- State level CSOs/CBOs

Educational Institutions
- Primary, Secondary and Technical Schools (Public and Public)
- School based management committees

Others
- National NGOs/ State level NGOs/Intergovernmental Organizations
- Scientific Experts/Researchers
- Parents Teachers Associations (PTAs)
- Students/Parents
- Private Sector

7.3 Consultation Strategies

A comprehensive public awareness program could include but not limited to the following:
- Meetings and Focus Group Discussions (FGD) with teachers, students, parents etc
- Develop and distribute a project newsletter
- Organize seminars and workshops
- Develop and maintain a project web site
- Develop radio and television adverts
- Prepare project press releases and posters

Concerns/comments from all stakeholders will be compiled. At the 2 stakeholder’s consultations were organized in Anambra and Ekiti states in March and November 2011 respectively. The following concerns were discussed, and consensus was reached on how to incorporate the solutions in the project design:

The concerns are as follows:

- **Environmental concerns include:**
  - Hygiene education should be revived in schools, and provision of safe drinking water and appropriate sanitation facilities;
  - Better adherence to environmental guidelines, particularly those related to environmental wastes management (materials and laboratory and chemical waste disposal); and
  - Provision of adequate physical learning environment such as beatification of classroom areas with trees and flowers;

- **Social concerns include:**
  - School level management: The composition of School-Based management Committees should include, representativeness of community members, and should autonomy from the school authorities in decision making;
  - Third party monitoring: There should be some form of third party monitoring which should include education Civil Society Organizations (CSOs); and NGOs both at state and Local government level.
  - Information dissemination: There should be a feedback mechanism particularly from the school authorities to the parents and community (e.g. annual parents' assemblies, possible use of school report cards, social audits, etc.).

ANNEXES

**Annex 1: Summary of World Bank Environmental and Social Safeguard Policies**

- **Environmental Assessment (OP 4.01).** Outlines Bank policy and procedure for the environmental assessment of Bank lending operations. The Bank undertakes environmental screening of each proposed project to determine the appropriate extent and type of EA process. This environmental process will apply to all sub-projects to be funded by SESP.

- **Natural Habitats (OP 4.04).** The conservation of natural habitats, like other measures that protect and enhance the environment, is essential for long-term sustainable development. The Bank does not support projects involving the significant conversion of natural habitats unless there are no feasible alternatives for the project and its sitting, and comprehensive
analysis demonstrates that overall benefits from the project substantially outweigh the environmental costs. If the environmental assessment indicates that a project would significantly convert or degrade natural habitats, the project includes mitigation measures acceptable to the Bank. Such mitigation measures include, as appropriate, minimizing habitat loss (e.g., strategic habitat retention and post-development restoration) and establishing and maintaining an ecologically similar protected area. The Bank accepts other forms of mitigation measures only when they are technically justified. Should the sub-project-specific ESMPs indicate that natural habitats might be affected negatively by the proposed sub-project activities with suitable mitigation measures, such sub-projects will not be funded under the SESP.

- **Pest Management (OP 4.09).** The policy supports safe, affective, and environmentally sound pest management. It promotes the use of biological and environmental control methods. An assessment is made of the capacity of the country’s regulatory framework and institutions to promote and support safe, effective, and environmentally sound pest management. This policy will most likely not apply to SESP.

- **Involuntary Resettlement (OP 4.12).** This policy covers direct economic and social impacts that both result from Bank-assisted investment projects, and are caused by (a) the involuntary taking of land resulting in (i) relocation or loss of shelter; (ii) loss of assets or access to assets, or (iii) loss of income sources or means of livelihood, whether or not the affected persons must move to another location; or (b) the involuntary restriction of access to legally designated parks and protected areas resulting in adverse impacts on the livelihoods of the displaced persons. This policy will most likely not apply to SESP as this project will not entail taking of land or restriction of access to sources of livelihood.

- **Indigenous Peoples (OD 4.20).** This directive provides guidance to ensure that indigenous peoples benefit from development projects, and to avoid or mitigate adverse effects of Bank-financed development projects on indigenous peoples. Measures to address issues pertaining to indigenous peoples must be based on the informed participation of the indigenous people themselves. Sub-projects that would have negative impacts on indigenous people will not be funded under SESP.

- **Forests (OP 4.36).** This policy applies to the following types of Bank-financed investment projects: (a) projects that have or may have impacts on the health and quality of forests; (b) projects that affect the rights and welfare of people and their level of dependence upon or interaction with forests; and (c) projects that aim to bring about changes in the management, protection, or utilization of natural forests or plantations, whether they are publicly, privately, or communally owned. The Bank does not finance projects that, in its opinion, would involve significant conversion or degradation of critical forest areas or related critical habitats. If a project involves the significant conversion or degradation of natural forests or related natural habitats that the Bank determines are not critical, and the Bank determines that there are no feasible alternatives to the project and its siting, and comprehensive analysis demonstrates that overall benefits from the project substantially outweigh the environmental costs, the Bank may finance the project provided that it incorporates appropriate mitigation...
measures. Sub-projects that are likely to have negative impacts on forests will not be funded under SESP.

- **Cultural Property (OP 11.03).** The term “cultural property” includes sites having archaeological (prehistoric), paleontological, historical, religious, and unique natural values. The Bank’s general policy regarding cultural property is to assist in their preservation, and to seek to avoid their elimination. Specifically, the Bank (i) normally declines to finance projects that will significantly damage non-replicable cultural property, and will assist only those projects that are sited or designed so as to prevent such damage; and (ii) will assist in the protection and enhancement of cultural properties encountered in Bank-financed projects, rather than leaving that protection to chance. The management of cultural property is the responsibility of the government. The government’s attention should be drawn specifically to what is known about the cultural property aspects of the proposed project site and appropriate agencies, NGOs, or university departments should be consulted; if there are any questions concerning cultural property in the area, a brief reconnaissance survey should be undertaken in the field by a specialist. SESP will not fund sub-projects that will have negative impacts on cultural property.

- **Safety of Dams (OP 4.37).** For the life of any dam, the owner is responsible for ensuring that appropriate measures are taken and sufficient resources provided for the safety to the dam, irrespective of its funding sources or construction status. The Bank distinguishes between small and large dams. Small dams are normally less than 15 m in height; this category includes, for example, farm ponds, local silt retention dams, and low embankment tanks. For small dams, generic dam safety measures designed by qualified engineers are usually adequate. This policy does not apply to SESP since the policy is not triggered under the project.

- **Projects on International Waterways (OP 7.50).** The Bank recognizes that the cooperation and good will of riparians is essential for the efficient utilization and protection of international waterways and attaches great importance to riparians making appropriate agreements or arrangement for the entire waterway or any part thereof. Projects that trigger this policy include hydroelectric, irrigation, flood control, navigation, drainage, water and sewerage, industrial, and similar projects that involve the use or potential pollution of international waterways. This policy will not apply to SESP.

- **Disputed Areas (OP 7.60).** Project in disputed areas may occur between the Bank and its member countries as well as between the borrower and one or more neighbouring countries. Any dispute over an area in which a proposed project is located requires formal procedures at the earliest possible stage. The Bank attempts to acquire assurance that it may proceed with a project in a disputed area if the governments concerned agree that, pending the settlement of the dispute, the project proposed can go forward without prejudice to the claims of the country having a dispute. This policy is not expected to be triggered by sub-projects. This policy is unlikely to be triggered by sub-projects to be funded by SESP.
• **The Country Systems Policy (OP 4.00)** is intended to allow countries to apply their own social and environmental safeguard systems if they are judged to be equivalent to the Bank’s own standards.

• **Disclosure Policy (OP 17.50).** This policy requires that all safeguards policy documents prepared for projects funded by the Bank be disclosed to the public at two levels: 1) In-Country disclosure at domains accessible to stakeholders, 2) At World Bank infoshop.

**Annex 2: Environmental and Social Screening (ESS) of sub-projects**

This stage marks the beginning of the ESIA or ESMP process, which should be initiated as early as possible along with the sub-project planning process after the sub-project is conceived. During this stage, the important functions that need to be performed are:

i. Establish the likely study area by identifying broad boundaries for the sub-project;

ii. Make a preliminary assessment of the significance of potential environmental impacts, and likely mitigating measures;

iii. Identify possible alternatives and the major potential environmental impacts associated with each, as well as the likely corresponding mitigation measures;

iv. Estimate the extent and scope of ESIA to be performed, and offer an initial recommendation as to whether a full ESIA is required;

v. Estimate the time frame of the ESIA study;

vi. Identify the expertise and human resources needed for the ESIA study; and

vii. Prepare the terms of reference for the conduct of an initial environmental examination.

The value of conducting environmental and social screening at the early conception and planning phase of a development project is to provide useful technical input to the project team for their planning and budgeting, thereby eliminating the possibility of costly remedial environmental work and delays caused by problems with adverse environmental damage. Such early input on environmental considerations also provides useful information that helps the project team to gain government approval and win public acceptance.

The environmental and social screening process considers the following aspects in the recommendation: project type, environmental and social setting, and magnitude and significance of potential environmental and social impacts. Some of the typical questions asked in the environmental and social screening process are outlined in the figure in the next page.
Annex Figure 1: Typical Environmental Screening Procedure
Standard Format for Screening Report

1. GENERAL DESCRIPTION
   1.1. Overview of the study area
   1.2. List of Selected Schools

2. PROJECT-SPECIFIC SCREENING (FOR EACH SUB-PROJECT):
   2.1. Existing infrastructure
   2.2. Proposed Works
   2.3. Estimated Cost
   2.4. Summary of Environmental and Social Issues
      2.4.1. Land Resources
      2.4.2. Hydrology and Water Resources
      2.4.3. Air and Noise
      2.4.4. Biological Resources
      2.4.5. Socio-Economic and Cultural
         2.4.5.1. Population
         2.4.5.2. Employment and Other Benefits
         2.4.5.3. Resettlement
         2.4.5.4. Other site-specific issues
   2.5. Environmental Screening Category
   2.6. Applicable Safeguard Policies

3. ESMP ACTION PLAN

4. ATTACHMENTS
   4.1. Maps
   4.2. Photos
   4.3. Location and Administrative Maps
   4.4. Environmental and Social Checklist
## Annex Table 1: Environmental and Social Checklist for Screening Report

<table>
<thead>
<tr>
<th>Local Government:</th>
<th>Ward:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>School Name:</td>
<td>Address:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Issue</th>
<th>Degree*</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Land Resources</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Worksites/Campsite Areas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Excavation Areas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disposal Areas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Water Resources &amp; Hydrology</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sources of Water for Construction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drainage Issues</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Biological Resources</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Trees/Vegetation around</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protected Areas directly affected</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Air Quality &amp; Noise</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special issues (e.g. quiet zone for hospital)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residential Areas</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Socio-Economic &amp; Cultural</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Involuntary Resettlement**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graveyards and Sacred Areas affected</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cultural Resources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Population affected/provided access</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Degree:  
N = Negligible or Not Applicable  
L = Low  
M = Moderate  
H = High

**If yes, indicate # of persons likely to be affected and nature of the effect
Annex 3: Terms of Reference

Introduction

1.1 The Federal Government of Nigeria (FGN) is embarking on the implementation of a strategy of gearing education initiatives towards achieving the desired outcomes and results. Consequently, the Government’s ongoing discussions with the World Bank have focused on how to ensure that the desired educational targets are achieved through a shift in focus on inputs and outputs to the achievement of results and outcomes.

1.2 For this purpose, with the World Bank support, the FGN has committed to designing and preparing a results-based financing operation in the education sector using a Program Investment Lending (PIL) approach, primarily in three states selected according to criteria, which includes key governance and fiduciary reforms. These are crucial to ensuring the success of such an operation, through greater transparency and accountability in educational management at all levels, and greater effectiveness and efficiency in resource use. Thus, the proposed operation would support the selected states' in improving governance in the education sector through: (i) strengthening school autonomy and accountability through local and state level management; (ii) improving teacher performance and management; (iii) improving measurement of student learning; (iv) strengthening planning, monitoring and evaluation and accountability; and (iv) enhancing the fiscal sustainability and effectiveness of public expenditures in education.

1.3 The proposed project development objective is to improve education quality in selected States. The project will have two components: (a) Supporting the Selected States education program by improving education quality; and (b) Technical assistance provision of a package of financial and technical support to both the State specific education sector programs, focusing on technical educational inputs (e.g. learning assessments), institutional strengthening, monitoring and evaluation, medium-term budget framework and project coordination, and targeted education sector at Federal level, and cross-cutting areas on policy and effective use of public expenditures.

Environmental Assessment Requirements

2.1 Since the potential project impacts will be site-specific typical of category B projects, at this instance, the appropriate instrument would be the Environmental and Social Management Framework (ESMF). While there is no construction involved in the project, an ESMF detailing the processes and procedures will be prepared and disclosed in the event that minor school repairs/maintenance will need to be done through the proposed school grants under the project.

2.2 The ESMF should identify any regulations and guidelines, which will govern the conduct of the framework or specify the content of its report. They may include the following:

- World Bank safeguard policies OP 4.01 (Environmental Assessment),

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1 Currently, States selected according to criteria are: Anambra, Bauchi, and Ekiti. Edo has expressed a keen interest to join this program.
• National laws and/or regulations on environmental reviews and impact assessments in the various sectors in which the project of the project;
• Selected States regulations; and
• Environmental assessment regulations of any other financing organizations involved in the project.

**Scope of Services**

2.3 The ESMF shall clarify environmental mitigation principles, organizational arrangements and design criteria to be applied to the project. The expected output is a report that provides basic information about the scope of adverse environmental and social impacts to be induced by project operations; mitigation and monitoring actions; to be taken and cost implications.

2.4 The Consultant will prepare an ESMF applicable to the project over its time frame. It is understood that the ESMF should cover the various activities of the project.

**Methodology**

2.5 In preparing the ESMF, the Consultant will:

- Review relevant Nigerian law and procedures;
- Review ESMFs prepared for other recent World Bank projects in Nigeria (e.g.);
- Review ESMFs prepared for other World Bank projects in other parts of the world (e.g. STEP-B and State Education Sector Project)

2.6 The following tasks describe the most important tasks under this study.

(a) **Environmental Screening and scoping**

2.7 The initial stage of the Consultants’ intervention will be the scoping of the project’s field of influence, activities and impacts that will have to be studied in the Framework. The consultant will have to propose options for the creation of an environmental screening, evaluating, and supervising mechanism within the project management unit, which ensures that funded projects/sub-projects are environmentally sound and sustainable and that any adverse environmental consequences are recognized early in the project’s cycle. This study is expected to develop an environmental screening and reporting section using a simple environmental criteria checklist format.

(b) **Analysis of Environmental Impact Issues**

2.8 Identify specific types of projects and associated environmental impacts that might require separate environmental assessment in relation to location, project size, and other site specific factors.

(c) **Baseline Data**
2.9 The Consultant will describe and give an overview of the current environmental situation of the selected states. The following elements will be surveyed:

(a) Physical environment: geology; topography; soils; climate and meteorology; ambient air quality; surface and ground water hydrology

(b) Biological environment: flora; fauna; rare or endangered species; sensitive habitats, including parks or preserves, significant natural sites, etc

(c) Socio-economic environment: land use, land tenure and land titling and human settlements.

(d) **Policy and Regulatory Framework**

2.10 The Consultant will analyze the existing environmental policies and legislation, including directives for environmental impact assessment, and assess needs for strengthening. The Consultant will also analyze sub-sector specific policies, laws and regulations that have environmental implications. The sectoral investment planning process, in terms of objectives, methodology and procedures for review and approval of plans and projects, should be carefully reviewed. The Framework should assess whether environmental and social issues are adequately covered by current procedures.

(e) **Institutional Framework**

2.11 Strengthening of institutions and building of capacity to mitigate and monitor the environmental and social impacts of the project and its sub-projects activities will be essential. The framework will address institutional tasks and cover the project process from initiation and reviews to monitoring during project implementation.

(f) **Analysis of Environmental and Social Impact Issues for the Education Sector**

2.12 This section will identify and assess the major environmental and social impacts of education sector in the selected states.

(g) **Analysis of Alternatives**

2.13 The ESMF should consider alternatives associated with the sector policy and minor construction or rehabilitation of infrastructure.

(h) **Development of Management Plan to Mitigate Negative Impacts**

2.14 The ESMF should recommend feasible and cost-effective measures to prevent or reduce significant impacts to acceptable levels. Estimate the impacts and costs of those measures, and of the institutional and training requirements to implement them. Prepare a management plan including proposed work programs, budget estimates, schedules, staffing and training
requirements, and other necessary support services to implement the mitigating measures. Develop an integrative/participatory environmental and social monitoring plan to ensure that the environmental and social impacts will be effectively mitigated. Institutional responsibility for mitigation and monitoring should be clearly specified and articulated.

(i) **Public Consultation**

2.15 Public consultation is an integral part of the EA process. Since the ESMF is conducted before most of the sub-project decisions are made, the most feasible form of consultation may be with target communities; community heads; Community Based Associations, key Community-Based facilitators (CBFs, i.e. religious leaders), local NGOs, scientific experts, relevant government agencies and the private sector.

**Expertise Required**

3.1 The service of a consultant is needed for the preparation of the ESMF. The consultant will have experience of at least 4 years; experience in the preparation of ESMF and/or other EAs instruments recognized by the World Bank. Strong country knowledge of Bank safeguard policies will be an asset.

**Duration of task**

4.1 It is expected that this consultancy services shall be for a period of six (6) weeks with about 4 weeks professional time within which the Consultant shall accomplish all the tasks including submission of final report to the Client.

**Reporting requirements**

5.1 The Consultant will liaise with the various state ministries of Education during the course of the project in the State and report to the Permanent Secretary of Federal Ministry of Education is the designated representative of the Recipient responsible for the management of the contract and to whom all products will be delivered. The following reports shall be submitted to the Federal Ministry of Education at the time and in a manner stipulated below:

- Inception report in five (5) hard copies and one (1) electronic copy within 1 week from commencement date;

- Draft Final report in five (5) hard copies and one (1) electronic copy (CD) within 2 weeks from commencement date. The Client allows for two weeks to review the draft and compile the comments; and

- Final report in ten (10) hard copies and one (1) electronic copy (CD) with comments incorporated within 4 weeks from commencement date.
Annex 4: Standard Format for Environmental and Social Management Plan (ESMP)

EXECUTIVE SUMMARY

1 PROJECT DESCRIPTION
1.1. Overview of the Local Government where the school are located
1.2. List of Selected Schools
1.3. Environmental Screening Category

2 POLICY AND ADMINISTRATIVE AND LEGAL FRAMEWORK

3 SCHOOL-SPECIFIC ESMPs (FOR EACH SCHOOL):
3.1. Location
3.2. Proposed Works
3.3. Estimated Cost
3.4. Baseline Data
3.4.1. Land Resources
3.4.2. Hydrology and Water Resources
3.4.3. Air and Noise
3.4.4. Biological Resources
3.4.5. Socio-Economic and Cultural
3.5. Potential Impacts
3.5.1. Land Resources
3.5.1.1. Construction Phase
3.5.1.2. Post Construction Phase
3.5.2. Hydrology and Water Resources
3.5.2.1. Construction Phase
3.5.2.2. Post Construction Phase
3.5.3. Air Quality and Noise
3.5.3.1. Construction Phase
3.5.3.2. Post Construction Phase
3.5.4. Biological Resources
3.5.4.1. Construction Phase
3.5.4.2. Post Construction Phase
3.5.5. Socio-Economic and Cultural
3.5.5.1. Construction Phase
3.5.5.2. Post Construction Phase
3.6. Analysis of Alternatives
3.7. Mitigation Measures
3.7.1. Construction Phase
3.7.2. Post Construction Phase
3.8. Monitoring and Supervision Arrangements
3.9. Summary ESMP Table

4 ATTACHMENTS
4.1. Photos
4.2. Summary of Consultations and Disclosure
4.3. Other
## Annex 5: Generic Guidance on Environmental and Social Management Plan (ESMP) by Project Phases

<table>
<thead>
<tr>
<th>Phases</th>
<th>Issue/Potential Impact</th>
<th>Mitigation Measure(s)</th>
<th>Implementing Responsibility</th>
<th>Monitoring Responsibility</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Phase</td>
<td>Impacts on physical environment: air quality, hydrology, waste, soils, noise</td>
<td>Consider the impact of the construction activities on the physical environment for the design of civil works</td>
<td>Design Consultant</td>
<td>SPTSU/FPSU</td>
<td>To be determined</td>
</tr>
</tbody>
</table>
|             | Impact on Air Quality: Emission of dust and other pollutants                          | Bid document will include requirement to ensure: - Adequate watering for dust control  
- Prohibition of open burning  
- Ensure stockpile of materials are properly secured  
- Proper unloading/storage of construction materials  
- On-site mixing of materials in shielded area  
- Equipment and materials to be properly covered during transportation. | Design Consultant          | SPTSU/FPSU               | To be determined    |
|             | Noise impact                                                                           | Bid document to include requirement to ensure:  
- Noise silencers be installed on all exhaust system  
- Use of ear plugs for construction workers  
- Equipment placed as far as possible from sensitive land users. | Design Consultant          | ESMU/ SPTSU/FPSU         | To be determined    |
|             | Impact on hydrology: Degradation of surface water quality                              | The contract document should specify:  
- use of good engineering practice during construction, including adequate supervision  
- Minimal water usage in construction area  
- Minimal soil exposure time during construction  
- Minimal chemical usage (lubricants, solvents, petroleum products. | Design Consultant          | ESMU/ SPTSU/FPSU         | To be determined    |
|             | Alteration of surface drainage                                                        | Contract document to include requirement to ensure:  
- installation of adequately sized drainage channels  
- stabilization of slopes to avoid erosion | Design Consultant          | ESMU/ SPTSU/FPSU         | To be determined    |
|             | Waste generation and disposal (solid/ oily/hazardous)                                  | Contract document to include requirement to ensure:  
- Provision of waste management plan.  
- Proper handling and disposal/recycling of oily waste | Design Consultant          | ESMU/ SPTSU/FPSU         | To be determined    |
|             | Impact on Soil: Increased soil erosion                                                 | Contract document to include requirement to ensure:  
- Use of less erodible materials,  
- Lined down-drains to prevent erosion | Design Consultant          | ESMU/ SPTSU/FPSU         | To be determined    |
<p>|             | Socioeconomic Impact:                                                                  | - Avoid the creation of congested and unsafe road | Design Consulting         | ESMU/ SPTSU/FPSU         | To be determined    |</p>
<table>
<thead>
<tr>
<th>Phases</th>
<th>Issue/Potential Impact</th>
<th>Mitigation Measure(s)</th>
<th>Implementing Responsibility</th>
<th>Monitoring Responsibility</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Disruption during work-demand for local infrastructure increase</td>
<td>conditions at intersections and in villages or cities.</td>
<td>Consultant</td>
<td>SPTSU/FPSU</td>
<td>determined</td>
</tr>
<tr>
<td></td>
<td>Disruption to traditional lifestyles and other services</td>
<td>- Ensures access to homes, businesses, other key services</td>
<td>Design Consultant</td>
<td>ESMU/ SPTSU/FPSU</td>
<td>To be determined</td>
</tr>
<tr>
<td>Construction</td>
<td>Impact on Air Quality: Emission of dust and other pollutants</td>
<td>- Periodically use water to spray areas under construction - Construction workers to wear face masks and gloves - Ensure that all equipment and materials loaded on trucks are covered during transportation</td>
<td>Contractor, Supervising consultant</td>
<td>ESMU/ SPTSU/FPSU</td>
<td>To be determined</td>
</tr>
<tr>
<td>Noise Impact</td>
<td></td>
<td>- Noise standards to be enforced to protect construction workers - Ensure that silencers are installed on all exhaust systems. - Ear plugs to be worn by construction workers - Turn off construction equipment when not in use</td>
<td>Contractor, Supervising consultant</td>
<td>ESMU/ SPTSU/FPSU</td>
<td>To be determined</td>
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<tr>
<td>Impact on hydrology: Degradation of surface water quality</td>
<td></td>
<td>- Use good engineering practice during construction - Ensure wastewater from cleaning of equipment is not disposed of in water course. - Wastewater should be collected and treated suitably before being disposed of in water courses. - Ensure minimal use of water in construction area - Minimal soil exposure time during construction</td>
<td>Contractor, Supervising consultant</td>
<td>ESMU/ SPTSU/FPSU</td>
<td>To be determined</td>
</tr>
<tr>
<td>Alteration of surface drainage</td>
<td></td>
<td>- Install adequately sized drainage channels - Ensure stabilization of slopes to avoid erosion</td>
<td>Contractor, Supervising consultant</td>
<td>ESMU/ SPTSU/FPSU</td>
<td>To be determined</td>
</tr>
<tr>
<td>Solid waste generation and disposal</td>
<td></td>
<td>- Ensure all waste earth and materials associated with construction activities are disposed land without prior consent of PPT. - Daily life rubbish and waste materials associated with construction activities should be daily collected and disposed of in suitable approved dumpsites. - Ensure that solid wastes are not disposed of in</td>
<td>Contractor, Supervising consultant</td>
<td>ESMU/ SPTSU/FPSU</td>
<td>To be determined</td>
</tr>
<tr>
<td>Phases</td>
<td>Issue/Potential Impact</td>
<td>Mitigation Measure(s)</td>
<td>Implementing Responsibility</td>
<td>Monitoring Responsibility</td>
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<td></td>
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<td>water courses.</td>
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<td></td>
<td>Poor sanitation at sites</td>
<td>- Provide adequately located and maintained latrines</td>
<td>Contractor</td>
<td>ESMU/ SPTSU/FPSU</td>
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<td></td>
<td>Accidental spill of toxic material/oil</td>
<td>- Design and implement safety measures</td>
<td>Contractor</td>
<td>ESMU/ SPTSU/FPSU</td>
<td>Cost</td>
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<td></td>
<td></td>
<td>- Provide an emergency plan to contain accidental spill</td>
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<td></td>
<td>Impact on Soil:</td>
<td>- Avoid erosion of cuts and fills by providing proper drainage,</td>
<td>Contractor, Supervising</td>
<td>ESMU/ SPTSU/FPSU</td>
<td></td>
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<tr>
<td></td>
<td>Increased soil erosion</td>
<td>- Lined down-drains to prevent erosion</td>
<td>Consultant</td>
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<tr>
<td></td>
<td>Impact on vegetation</td>
<td>- Replanting of land within project area.</td>
<td>Contractor, Supervising</td>
<td>ESMU/ SPTSU/FPSU</td>
<td>Cost</td>
</tr>
<tr>
<td></td>
<td>Health and Safety Impact</td>
<td>- Ensure adequate health facility systems are in place on-site to deal with influx of</td>
<td>Contractor, Supervising</td>
<td>ESMU/ SPTSU/FPSU</td>
<td>Cost</td>
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<td></td>
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<td>temporary workers.</td>
<td>Consultant</td>
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<td></td>
<td></td>
<td>- Ensure use of nets, insect repellent and other malaria preventive measure for</td>
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<td></td>
<td></td>
<td>workers on site.</td>
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<td></td>
<td></td>
<td>- Health education about STDs should be introduced.</td>
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<td></td>
<td></td>
<td>- Training of construction crew and supervisors on health and safety guidelines</td>
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<td></td>
<td></td>
<td>- Personal protective equipment to be worn by all workers</td>
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<tr>
<td>Socioeconomic Impact</td>
<td>Loss of property</td>
<td>- Avoid or reduce loss of property</td>
<td>Contractor</td>
<td>Supervising Consultant/ESMU</td>
<td>To be</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Avoid land where farmers will be displaced.</td>
<td></td>
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<td>determined</td>
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</tbody>
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61
Annex 6: Procedures for determining sub-projects requiring an ESIA

Step 1: Screening

To determine the depth of ESIA required, potential impacts in the following areas need to be considered:

- Social issues
- Health issues
- Protected areas
- Cultural heritage
- Existing natural resources such as forests, soils, wetlands, water resources
- Wildlife or endangered species habitats

Step 2: Scoping

To identify the relevant environmental and social issues, this step determines:

- Level of detail required for the ESIA
- Extent of the area to be covered in light of the potential impact zones
- Timeframe for the ESIA based on the potential impact zones
- Sequencing and scheduling of the various ESIA tasks
- Preliminary budgets

Step 3: Preparation of Terms of Reference for Sub-project ESIA

Based on the screening and scoping results. ESIA terms of reference will be prepared. A local consultant will conduct the ESIA and the report should have the following format:

- Description of the study area
- Description of the sub-project
- Legislative and regulatory considerations
- Determination of the potential impacts of the proposed sub-projects
- Environmental Management Plan
- Public consultations process
- Development of mitigation measures and a monitoring plan, including cost estimate