

ENVIRONMENTAL PROTECTION AGENCY



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ENVIRONMENTAL ASSESSMENT REGISTRATION FORM (To be completed in Duplicate)

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Form E A 1

PROPONENT:

CONSTRUCTION OF FOUR STOREY BUILDING TO HOUSE
THE REGIONAL WATER AND ENVIRONMENTAL SANITATION
CENTRE, KUMASI (RWESCK)

Address for correspondence

DEPARTMENT OF CIVIL ENGINEERING, KNUST

KUMASI

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Position CENTRE LEADER

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ASSESSMENT NO:		FILE NO.	
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Environmental protection Agency (Head office)
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Accra, Ghana

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*This form shall be submitted to the relevant EPA Regional Office. It is important that you read carefully the guide for completing the form before starting.

GUIDE FOR COMPLETING AN ENVIRONMENT ASSESMENT REGISTRATION

The Environmental Assessment Registration Form is designed to provide enough relevant information to enable the EPA to set an appropriate level of assessment for proposal referred to it. Failure to provide detailed information in a comprehensive manner may delay the assessment process. It is not expected that this form will be appropriate for all purposes and, depending on your proposal, a lengthier document may be necessary in addition to this form.

PROPOSAL

A simple, brief description of the proposal or proposed undertaking is required and must include: input process, end results, outputs quantities and timing. Please include flow diagram if available.

LOCATION

A map site plan is essential.

It should indicate the geographical coordinates of site(Longitude and Latitude),evaluation and slope of the site, any nearby areas or features of environmental significance (e.g. proposed or declared reserves, water courses, wetlands), and adjacent land uses, including the nearest homes or areas zones residential.

SERVICES

Details of water supply, storm water drainage, power corridors, access to and impact on roads and transport can all be of significant and should be noted where relevant.

ENVIRONMENTAL IMPACT

Criteria for assessing a project and setting a level of assessment are:

- 1.The character of the environment
- 2.The potential impact of the proposal
- 3.Resilience of the environment to cope with change
- 4.Confidence of predicting impact
- 5.Plans, policies or order procedures which provide way to manage potential environment impact.
- 6.The input of other statutory decision-making bodies
- 7.Degree of public interest.

The following potential environment impacts may be relevant:

- *effect on geomorphology, land stability and landscape
- *effect on drainage and water quality (surface and ground)
- *effect on biota
- *effect on access and transport systems
- *effect on existing services including power, water and telephone
- *effect on existing community facilities
- *effect on existing contingency plans for safety and emergency services.
- *effect on emission (gas, dust, noise and heat)
- *management of solid and fluid waste and storm water
- *impact on adjacent land uses including any conservation and recreation aspects
- *impact on construction and operational activities.
- *visual impact
- *social impact

Proponents would be required to pay appropriate processing and permit fees in accordance with the Environmental Assessment (Amendment) Regulations.2002 (L1 173)

Any false information provided constitutes an offence under the Environmental Assessment Regulations.1999, L1 1652 (Section 29d)

1. PROPOSED UNDERTAKING/DEVELOPMENT

Title of proposal (General classification of undertaking)

CONSTRUCTION OF A FOUR-STORY BUILDING FOR TEACHING AND LEARNING

Description of proposal (undertaking, unit processes (flow diagram), raw materials, list of chemicals (source, types and quantities), storage facilities, wastes/by-products (soil, liquid and gaseous)

The project involves the construction of a complex housing lecture rooms, video conferencing facilities, laboratories and offices. Mainly, the lecture room will be fitted with classroom furniture, computers and projectors for teaching. Offices will be fitted with office furniture as well as computers and other basic office equipment. Video conferencing facilities will have ultra-modern equipment for video conferencing which would be connected to a high speed internet facility.

Laboratories will be installed with basic to high-tech laboratory equipment for analyses of water and soil samples. It is perceived that the main waste generated will be paper, waste water and liquid waste.

Scope of proposal (size of labour force, equipment and machinery, installed/production capacity, product type, area converted by facility/proposal, market) Seminar rooms - 2, Laboratories - 3, Lecture Halls - 12 Auditorium - 1 (250 capacity), video conference room - 1, Computer Offices - 35, Meeting rooms - 2

It is expected that the equipment to be used for construction include earth moving equipment, hauling and hoisting equipment, graders, bulldozers, aggregate and concrete production equipment, cranes and other heavy duty machines. Post construction, the facility will be equipped with a power generating plant.

Work force is 84 (eighty-four).

2. PROPOSED SITE

Location (attach a site plan/map)

Plot/House No. N/A

Street/Area Name: KNUST CAMPUS

Town: KUMASI

District/Region ASHANTI REGION

Major Landmarks (if any) NEW FACULTY OF ART AND BUILD ENVIRONMENT COMPLEX

Current zoning N/A

Distance to nearest residential and/or other facilities

The centre building is about five hundred meters (500m) from the nearest residential facility (student facility)

Adjacent land uses (existing and proposal)

The immediate environment is cultivated as farm lands by itinerant farmers. Illegal poaching of game is practiced alongside

Site description (immediate activities should be described)

Basically, the site is currently uncultivated and exist in its natural agricultural state. As such there are no on-going activities. Immediate activities pending construction will be grading, hauling and herding the site.

3. INFRASTRUCTURE AND UTILITIES

Structures (buildings and other facilities proposed or existing on site)

A four storey building complex will be constructed on the site. The structure will be mainly be used for teaching and learning. It will have lecture rooms, offices, laboratories and conference rooms.

Access to water (source, quality)

The main source of water to the structure will be treated piped water supplied by Ghana Water Company Limited. It will be supplemented by a borehole to be drilled on site.

Access to Power (type, source and quantity)

The main source of power supply to the structure will be from Electricity Company of Ghana. This will be supplemented by a diesel generator.

Drainage provision in the project area

Waste water from the complex will be connected and channeled through the sewerage system on KNUST campus.

Nearness to water body

The project site is about five hundred meters from the Weawe stream, a fresh water source.

Access to project site

There currently exists an easy access road to the site. This road stretches from the college of engineering junction through business school junction.

Other major utilities proposed or existing on site (e.g. Sewerage, etc.)

N/A

4. ENVIRONMENTAL IMPACTS

Potential environmental effects of proposed undertaking (Both constructional and operational phases)

The potential negative impacts as a result of pre-construction and operational phase are listed in the attached document in detail.

It is perceived that construction will initiate alterations that may reduce the ecosystem services which may negatively impact the natural ecology through reductions in suitable habitats, biodiversity and nutrient cycling. There shall be effluent and/or discharges into receiving waters during the operational phase of the complex. The site is not in a populated area and vehicular traffic is minimal. There shall be no relocation of project affected persons or encroachment of private property.

5. OTHER ENVIRONMENTAL ISSUES

Potential significant risk and hazards associate with the proposal (including occupational health and safety). State briefly relevant environmental studies already done and attach copies as appropriate

N/A

6. CONSULTATIONS

Views of immediate adjoining neighbours and relevant stakeholders (provide evidence of consultation)

Notification of upcoming activities to local construction and environment inspectorates. All legal permits have been acquired for construction and/or rehabilitation. All work will be carried out in a safe and disciplined manner designed to minimize impacts on neighbouring residents and environment

7. MANAGEMENT OF IMPACTS AND ENVIRONMENTAL ENHANCEMENT MEASURES

The required ~~etc~~ information is attached to this document in detail.

Workers's PPE will comply with international good practice. Appropriate signposting of the sites will inform workers of key rules and regulations to follow. During interior demolition debris-chutes will be used above the first floor. Demolition debris will be kept in a controlled area and sprayed with water mist to reduce debris dust. Construction noise will be limited to restricted times agreed to in the permit. Waste collection and disposal pathways and sites will be identified for all major waste types expected from demolition and construction activities.

ATTACHMENTS

Tick appropriate boxes indicating that the following required documents have been attached:

- Authentic site plan (signed by a licensed surveyor and certified by Survey Dept.)
- Block plan of the site.
- Photographs of the site.
- Zoning letter from Town Country Planning Department