

PROPOSED construction of the bagatelle dam at bagatelle
by the Ministry of energy and public utilities
(env/12/1472) -Exempt undertaking

1. All other necessary permits/clearances from the relevant authorities shall be obtained and all the conditions attached therewith shall be scrupulously observed. A copy of all the permits/clearances obtained shall be submitted to the Director of Environment.
2. The development shall be carried out in conformity with the relevant Sections of the Rivers and Canals Act.
3. The development shall be undertaken as per the mitigating measures stated in the EIA report and in the additional information submitted, unless as otherwise advised herein.
4. The Department of Environment shall be informed in writing of the date of commencement of works for monitoring purposes. A detailed programme of work and implementation plans including the detailed design shall be submitted to the Department of Environment, Ministry of Environment & Sustainable Development.
5. In accordance with section 18(2)(l) of the Environment Protection Act 2002, the proponent shall submit to the Director of Environment, an Environmental Monitoring Plan for approval. The proponent shall thereafter submit reports on the implementation accordingly.
6. The Department of Environment shall be informed in writing of the date of completion of all works on site, with copy of the as-built layout plan, prior to the start of operation for monitoring purposes and to ensure compliance with the conditions imposed with the approval of the EIA as well as the proposals in the EIA report and additional information.

7. The proposed dam shall be constructed and operated in compliance with the World Bank Operational Directives and Environmental Policy for Dams and Reservoirs.
8. A catchment area of the reservoir shall be delimited and a catchment area management plan shall be established. The Management Plan shall also provide for the necessary buffer around the dam.
9. The proponent shall keep a line of communication with the stakeholders in the area, including Medine Limited and shall resolve any conflict that may arise, with regards to the water rights prior to the implementation of the project.
10. The proponent shall submit a proper programme of works with a plan for the translocation of all indigenous plants to the National Parks & Conservation Service and Conservator of Forest with copy to the Director of Environment. The Forestry Services shall be allowed to remove all exploitable timber within the river reserves and all indigenous plants likely to be submerged shall be translocated from the project area. The translocation and re-establishment of the native plant species shall be strictly done under the presence of the officers of the National Parks & Conservation Service and Forestry Services. A small nursery (shade house) shall be established in situ for landscaping purposes and to minimize risk of damage caused by translocation stress, in consultation with the National Parks & Conservation Service.
11. The proponent shall undertake an in-depth assessment of the subject site in terms of carbon sink/sequestration capacity and its loss due to the construction and operation of the dam. Based on the above study, the proponent shall undertake off site compensation of weeding over an area of at least 10 hectares, adjoining river reserves upstream of the site. Native plants shall be used in priority for all landscaping works at the site.
12. The proponent shall upgrade part of the Cote D'Or Road (B48) concerned with the project to a 6m wide road to the satisfaction of the Road

Development Authority. The proponent shall provide street-lighting at entrance and exit on the B48 Road and along the route which will be used during the implementation of the project. The proponent shall upgrade the Cote D'Or Bridge to 7m wide with footpath on both sides, to the approval of the Road Development Authority. Approval shall be sought from the Road Development Authority prior to any constructions and connections to existing services (eg. CWA, CEB, MT etc.) on Main Road. A programme of works with the date of start, duration and completion of the works shall be submitted prior to start of works.

13. All domestic solid waste generated from the project shall be stored in bins prior to carting away by scavenging service. Construction debris and demolition wastes shall be reused as far as possible to minimize amount of waste generated and the excess disposed of at the landfill.
14. All wastewater from the development shall be disposed of as follows:

At operation phase

- (i) All wastewater from the watchman quarter shall be disposed via a septic tank and leaching field.
- (ii) The septic tank shall have a minimum volume of 3 m³ and shall be accessible at all times.
- (iii) The plan area of the leaching field shall be at least 20 m².
- (iv) The location of the on-site disposal shall be as per the Planning Guidance of the Ministry of Housing and Lands.

During the construction phase

- (i) All waste water shall be channeled to the proposed BLIVET type wastewater treatment plant as detailed in the consultant submission.
- (ii) The effluent from the wastewater treatment plant shall meet the limit for disposal onto land as per (Standards for effluent discharge) Regulation 2003 of the Environment Protection Act 2002.

- (iii) The promoter shall ensure that the operation and maintenance of the wastewater treatment plant is carried out by specialist/s or a specialist firm, on a regular basis.
- (iv) The promoter shall seek guarantees for the equipment from the supplier/s in order to cater for the repairs of mechanical breakdown, equipment failures and availability of spare parts.
- (v) No untreated wastewater shall be discharged into the environment.
- (vi) Results of analysis of treated effluent shall be submitted to the Wastewater Management Authority on a monthly basis.
- (vii) In case of any environmental nuisance arising at operation phase of the treatment plant, the Wastewater Management Authority will impose additional conditions, which the promoter shall scrupulously observe for abatement.
- (viii) Design report of the wastewater treatment plant shall be submitted to Wastewater Management Authority's office for vetting prior to any sewerage construction works. The Design report shall be in line with the "Guidelines for Preparation of Application for Wastewater Treatment Plants".

15. The wastewater treatment plant shall be fully enclosed and equipped with an odour control equipment.

16. The noise level during the construction phase shall be within the permissible limits as per the Standards for Noise promulgated under the Environment Protection Act.

17. The plant and equipment that will be used on site during the construction period shall be regularly serviced and maintained in good condition to minimize risk of air and noise pollution.
18. Necessary measures shall be taken to prevent any hydrocarbon spills from vehicles and from the stand-by generator and diesel storage tanks to infiltrate through the soil so as to avoid the contamination of the underground and surface waters.
19. The proposed rock quarry at Mt Hauillard and the proposed hydropower station shall be subject to separate EIA's.
20. Necessary measures shall be taken during all the phases of the project, including site preparation, construction and operation so as not to cause any nuisance by way of dust and noise to the public and surrounding environment.
21. Any proposed deviation shall be subject to an application to the Director of Environment. No deviation or part thereof shall be executed prior to the determination of the application by the Director.