

LIST OF CONDITIONS FOR PROPOSED SETTING UP OF A SEMI-MOBILE ASPHALT PLANT AT LA CHAUMIERE, BAMBOUS BY GAMMA CONSTRUCTION LTD [ENV/DOE/EIA/1790]

1. The development shall be undertaken as per the mitigating measures stated in the EIA report and the additional information submitted, unless as otherwise advised herein.
2. No works related to the project shall start on site prior to the validity and purpose of the lease of the site being sorted out with the Ministry of Housing and Lands. A copy of the lease agreement shall be submitted to the Department of Environment and the Local Authority.
3. The Department of Environment shall be informed in writing of the date of commencement of works on site for monitoring purposes.
4. In accordance with Section 18(2)(l) of the Environment Protection Act 2002 (as amended), the proponent shall submit to the Director of Environment, an Environmental Monitoring Plan (EMP) for approval prior to start of works on site. No infrastructural works shall start prior to the approval of the EMP. The proponent shall thereafter submit monitoring reports as per the EMP approval.
5. 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.
6. 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.
7. Covered lorries shall be used for transport of fine materials to and from the plant. The proponent shall ensure that the lorries/trucks transporting materials are loaded (Maximum 10.2 Tonnes per Axle) in compliance with the Road Traffic (Construction and Use of Vehicles) Regulations 2010. Lorries carrying big boulders shall be equipped to provide protection against hazards.
8. The design of the internal drain network shall be carried out such that no stormwater within the proposed development is channelled towards/into the drain network along the Black River (A3) Road.
9. The proponent shall ensure the cleanliness of the Black River (A3) Road over a strip of at least 200m, on both sides of the junction, to the satisfaction of the Road Development Authority and the Local Authority. Any part of the Black River (A3) Road leading to the project site which may be damaged during the works or during operation shall be restored, to the satisfaction of the Road Development Authority at the promoter's cost.

10. All road safety measures shall be to the satisfaction of the Traffic Management and Road Safety Unit.
11. All necessary precautions shall be taken to the satisfaction of the Water Resources Unit so that the proposed development does not impact negatively on the ground water and surface water quality, given that the proposed site lies in a relatively permeable zone.
12. The proponent shall make provision for an appropriate means of discharging stormwater through mud/silts traps and hydrocarbon separators prior to open discharge to the receiving environment. A separate drainage network incorporating hydrocarbon separators shall be provided for disposal of bitumen spills. An adequate drainage network shall be provided on site to prevent any stagnation of water or used water within the premises to the satisfaction of the Local Authority and Water Resources Unit.
13. Necessary measures shall be taken during heavy rainfall to prevent contamination of the underground and surface water by petroleum/bitumen based products. The working platforms shall be provided with impermeable concrete lining to contain any bitumen spills. Necessary bunded walls shall be provided around the storage of all petroleum based products/bitumen/diesel storage tanks to cater for any accidental spillage and leakage. A contingency plan shall be provided for in case of any accidental spillage.
14. Necessary measures shall be taken to the satisfaction of the Water Resources Unit to prevent any diesel, oil and hydrocarbon spills due to movement of lorries and plant operation.
15. All domestic wastewater shall be channelled to a septic tank followed by an absorption pit. The septic tank shall have a minimum volume of 3m³ and the absorption pit shall have a total minimum wall surface area of 20m². The septic tank shall be watertight and accessible at all times for inspection and maintenance. Every three years or if necessary at a lesser interval, the septic tank shall be desludged by licensed wastewater carriers. The septic tank and absorption pits shall be located at least 2m from any building and site boundary as per the Planning Policy Guidance (PPG) of the Ministry of Housing and Lands dated November 2004 and revised in September 2006. No vehicular loading shall be allowed on the on-site disposal system. The on-site wastewater disposal system shall be located on slope not greater than 10%. The minimum height from the formation level of the absorption pit to the maximum level of water table shall be 1.2 m as per PPG.
16. The construction wastes shall be separated into inert and non-inert wastes. The inert construction wastes such as bricks and concrete shall be used for land reclamation. The non-inert wastes such as wood and metal cuts shall be collected and sent to registered recyclers, to the satisfaction of the Solid Waste Management Division.
17. Solid wastes generated by the workers shall be collected and sent to La Chaumiere Transfer Station, to the satisfaction of the Solid Waste Management Division.

18. Hazardous chemical (toluene) used for testing bitumen in laboratory at the site shall be disposed of at the Interim Hazardous Waste Storage Facility at La Chaumiere, to the satisfaction of the Solid Waste Management Division against payment.
19. No waste of any type shall be disposed of in any river, canal, natural water course or ground surface.
20. All electric motors such as air pumps, compressors, generators and other noise generating equipment shall be housed in noise attenuating structures so that noise generated therefrom shall be within permissible limits as per Environment Protection (Environmental Standards for Noise) Regulations 1997.
21. All machines and plants to be used during the construction and operation phases shall be regularly serviced and maintained in good working condition to minimise any risk of air and noise pollution.
22. All emissions from the plant shall comply with the Environment Protection (Standards for Air) Regulations 1998 promulgated under the Environment Protection Act 2002 (as amended).
23. Stack and ambient air monitoring shall be carried out within the nearest agglomeration or as otherwise requested on an annual basis. The air monitoring shall be undertaken by an accredited body. The results of the air monitoring exercise shall be submitted to the Department of Environment.
24. The asphalt plant shall be regularly maintained and all odorous emissions therefrom shall be adequately treated so as not to cause odour nuisance. All gaseous emissions likely to cause odour nuisance shall be channelled to an odour control device prior to release into the atmosphere.
25. The yard shall be properly maintained at all times. The conveyor belt shall be properly enclosed. Dust generated by activities at the plant, including dust associated with traffic to and from the plant shall be controlled by good management practices such as sweeping, paving, asphalting and watering. Rock dusts shall be stacked in enclosures.
26. A washing bay shall be installed at the site entrance from the junction of the Black River (A3) Road. Adequate water sprinklers shall be provided along the access road to the plant, in the yard and on the stockpiles of aggregates and shall be operated regularly to suppress dust emanation.
27. An adequate and continuous potable water supply shall be ensured on the premises and water storage tank(s) with capacity to store enough water for 48 hours, shall be provided solely for abating dust pollution.
28. Necessary measures shall be taken during all the phases of the project, including site preparation, construction and operation phases so as not to cause any nuisance by way of noise, odour, vibration, dust, air pollution or otherwise to the public and surrounding environment.

29. Operation after normal working hours shall be subject to approval from the Local Authority.
30. Workers shall be provided with appropriate protective equipment (proponent to ensure the use of same), sanitary facilities and regular medical checkups.
31. A green belt of fast growing trees shall be provided around the plant.
32. In case of any environmental pollution or nuisance arising from this development, this Ministry in consultation with other concerned authorities may impose additional conditions, and will take necessary actions in accordance with the provisions of the Environment Protection Act 2002 (as amended). The additional conditions shall be strictly observed and implemented by the proponent.
33. 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.

Note:

According to Section 15 (2)(c) of the Environment Protection Act 2002 (as amended), no proponent shall commence or cause to be commenced any undertaking more than three years after the issue of an EIA licence unless the Minister in circumstances beyond the control of the proponent, otherwise determines in respect of that undertaking.