

LIST OF CONDITIONS FOR PROPOSED DESALINATION PLANT AT LA
BALISE MARINA BY DOLPHIN COAST MARINA ESTATE LTD
[ENV/DOE/EIA/1704]

1. Notwithstanding all the other permits and clearances, the following clearances 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:
 - i. A Building and Land Use Permit from the District Council of Black River shall be obtained prior to carrying out development on site.
 - ii. A Drilling Permit and Ground Water Licence shall be obtained from the Central Water Authority regarding the drilling and exploitation of the second intake borehole on site.
2. The development shall be undertaken as per the mitigating measures stated in the EIA report, the addendum and the additional information submitted unless as otherwise advised herein.
3. The Department of Environment shall be informed in writing of the date of commencement of all works on site for monitoring purposes. A detailed programme of work and implementation plans shall be submitted to the Department of Environment, prior to the start of works.
4. 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 (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 reports on the implementation accordingly.
5. The Department of Environment shall be informed in writing of the date of completion of all works on site, with copy of the final plan for monitoring purposes to ensure compliance with the conditions of the EIA licence as well as the proposals in the EIA report, the addendum and the additional information.

6. The development shall comply with all provisions as stipulated in clause 26 of the Rivers and Canals Act and a minimum setback of thirty meters shall be respected from water bodies including the river.
7. A setback of at least 10m shall be observed from the Black River-Savanne Coast Road (B9).
8. The proponent shall submit the baseline data of the water quality in Grande Riviere Noire river prior to the implementation of the desalination plant.
9. In consultation with the Central Water Authority and the Water Resources Unit, the proponent shall drill an observation borehole/monitoring well to accommodate a piezometer pipe of a minimum diameter of 50mm upstream of the abstraction borehole for subsurface water quality monitoring. The exact location of the observation borehole will depend on the local characteristics of groundwater flow and hydrogeological studies and shall be as per the recommendations of the Central Water Authority and the Water Resources Unit.
10. The proponent shall implement a Sub-surface Water Protection Plan after the implementation of the project, given that the rejection borehole will be located at 80m from the Grande Riviere Noire river and 66 m from the boat access canal. The baseline salinity values at the boreholes, including the monitoring borehole shall be recorded and the salinity profile in the region at various depths shall be established prior to the implementation of the project.
11. The proponent shall carry out analysis of salinity of the raw water in the intake borehole, the monitoring borehole as well as salinity of the brine in the rejection borehole as per recommendations of the Central Water Authority and Water Resources Unit. The monitoring reports (prepared by a qualified and experienced hydro-geologist) including analysis, interpretation of results and the recommendations thereof shall be submitted to the Central Water Authority and Water Resources Unit, (six months and twelve months after the operation of the desalination plant) with a copy to the Department of Environment.

12. The proponent shall ensure compliance with the salinity of the brine as proposed in the EIA report addendum and additional information
13. The proponent shall carry out analysis of water samples in the lagoon adjacent to the project site on a quarterly basis to ensure that the salinity of the sea water is within the natural parameters.
14. The proponent shall carry out monitoring of the marine ecosystem of the lagoon adjacent to the project site on a quarterly basis and submit the report to the Ministry of Ocean Economy, Marine Resources, Fisheries & Shipping and a copy to the Department of Environment.
15. Construction wastes generated during laying of pipelines shall be used as backfill materials, as far as possible.
16. The proponent shall ensure that backwash water from the desalination plant does not affect the processes in the wastewater treatment plant.
17. No waste of any type shall be disposed of at sea. There shall be no negative impact on the marine ecosystem.
18. The desalination plant shall be closed during cyclonic conditions.
19. Necessary bunded walls shall be provided around the hazardous chemical storage area and standby generator to cater for any accidental spillage and leakage of petroleum based products.
20. A road reserve of 3.0m shall be provided along the Black River-Savanne Coast Road (B9) for future upgrading of the road. The reserve shall be kept free from any structure and shall be maintained at all times by the proponent.
21. The desalination plant shall be operated by trained personnel.
22. The plant shall be properly screened by trees and hedges and its architectural design shall blend aesthetically with the rest of the development.

23. A contingency plan shall be set up to combat any case of accidental brine and chemical spillage. The contingency plan as provided for, under Section 30(3)(a) of the Environment Protection Act shall be submitted to the Director of Environment prior to operation.
24. Used filters, damaged membrane system and expired chemicals shall be disposed of to the satisfaction of the Solid Waste Management Division.
25. Electric motors such as generators and other noise generating equipment shall be housed in soundproof structures so that the noise emanating therefrom be within permissible levels as per the Environment Protection (Environment Standards for Noise) Regulations 1997 promulgated under the Environment Protection Act.
26. The quality of the desalinated water after treatment shall comply with the Environment Protection (Drinking Water Standards) Regulations 1996 promulgated under the Environment Protection Act.
27. The proponent shall take all mitigating measures so as not to cause any prejudice to the quality of any fresh water resources in the vicinity of the proposed development area.
28. The proponent shall not cause any form of pollution or nuisance by way of noise, odour or dust pollution to the neighbours and to the public in general.
29. In case of any environmental pollution or nuisances arising from this development, the Department of Environment may take necessary action in accordance with the provisions of the Environment Protection Act.
30. 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, 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.