

LIST OF CONDITIONS FOR PROPOSED DEEP OCEAN WATER APPLICATION PROJECT BY URBAN COOLING LTD [ENV/DOE/EIA/1726]

1. Notwithstanding all the other permits and clearances, clearances from the following authorities shall be obtained and all conditions attached therewith shall be scrupulously observed. A copy of the following clearances shall be submitted to the Director of Environment prior to start of works:
 - i. Clearance from the Ministry of Housing and Lands and Ministry of Energy and Public Utilities with regards to the exact alignment of the access road to the proposed site.
 - ii. Authorization of the Mauritius Ports Authority for use of the temporary staging site and prior to the start of the undersea trenching works.
 - iii. Clearance from the Ministry of Agro Industry and Food Security with regards to the marshy areas found on the subject site and felling of trees/ landscaping programme.
 - iv. The proposed project shall comply with all the provisions as stipulated in Clause 26 of the Rivers and Canals Act whereby a setback of 30m shall be respected from all natural watercourses. Necessary authorization from the Supreme Court shall be obtained for construction of any kind, across and in a natural watercourse as stipulated in Rivers and Canal Act, part I, Section 25. Prior to construction, the proponent shall make a formal application to the Central Water Authority/ Water Resources Unit for laying of pipelines across any natural watercourses.
 - v. Since the site for pipe laying falls within the Port Louis Fishing Reserve, as per the Fisheries and Marine Resources (Marine Protected Areas) Regulations 2001 and amended regulations 2007, the proponent shall have to apply for an Interference Permit to the Ministry of Ocean Economy, Marine Resources, Fisheries and Shipping.

2. The development shall be undertaken as per the mitigating measures stated in the EIA report and all additional information submitted unless as otherwise advised herein.
3. The Department of Environment shall be informed in writing of the date of commencement of works for monitoring purposes. A detailed programme of work shall be submitted to the Department of Environment and the Ministry of Ocean Economy, Marine Resources, Fisheries and Shipping, prior to the start of works.
4. The proponent shall resolve any conflict that may arise with the coastal users including fishers of the region prior to, during and after the implementation of the project.
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 (EMP) for approval prior to start of works. No infrastructural works shall start prior to the approval of the EMP. The proponent shall thereafter submit reports on the implementation accordingly.
6. The proponent shall submit the Detailed Final Design (DFD) for the laying of pipes at sea, including modelling, in the EMP for approval prior to start of works. The DFD shall contain information and justification on the location of the discharge point and include the following parameters for the modelling amongst others:
 - i. Water quality in line with Guidelines for Coastal Water Quality for surface waters (1-10m), waters at 20m depth, 50m depth and 100m depth and 1000m depth.
 - ii. Physical oceanography parameters including:
 - o Water mass movement (currents): Eulerian and Lagrangian measurements recordings
 - o Salinity and temperature
 - o Wave height and period

- iii. Outfall Hydraulics including design flows, pipe diameters and slope, discharge system, effluent density, receiving water density, discharge depth, operating head, dilution/diffusion rate, amongst others.
- 7. Should there be any negative impact in terms of algal blooms, death of fish/marine organisms amongst others, the proponent shall initiate actions to stop all discharges and review their discharge point to the satisfaction of the Ministry of Ocean Economy, Marine Resources, Fisheries and Shipping, the Department for Continental Shelf, Maritime Zones Administration and Exploration and the Mauritius Oceanography Institute.
- 8. All macro benthic marine organisms including the scattered juvenile coral colonies present within the site of works shall be carefully hand-picked and relocated to other areas not affected by construction works under the supervision of a Fisheries Protection Officer.
- 9. Necessary measures shall be taken to remove all microorganisms from the deep seawater prior to discharge. Monitoring of same shall be carried out on a regular basis to ensure that no microorganisms are being discharged.
- 10. The proponent shall establish 4 monitoring stations at 100m apart, at North, South, East and West, with the discharge point as centre line for monitoring of seawater quality at the surface and discharged depth on a monthly basis.
- 11. Monitoring of the discharged water quality shall be undertaken on a daily basis for the first six months and weekly thereafter in line with Coastal Water Quality guidelines.
- 12. Monitoring of the status of the marine ecosystem shall be carried out on a quarterly basis, or as otherwise determined by the Director of Environment and the Ministry of Ocean economy, Marine Resources, Fisheries and Shipping.
- 13. All results of sea water analysis and status of the marine ecosystem of the site shall be submitted within 15 days of survey to the Ministry of Ocean economy, Marine Resources, Fisheries and Shipping and copied to the Department of Environment.

14. All precautions shall be taken to minimize sediment entrainment during the works.
15. No waste of any type shall be disposed of or have access into the sea.
16. Any excess excavated sand/ silt/ dead corals/rocks from the sea floor shall be used either for beach reprofiling in the popular beach of Bain des Dames or used to raise the level of the DOWA inland site.
17. Necessary measures shall be taken to prevent any hydrocarbon spills from vehicles, from the stand-by generator and from diesel storage tanks to infiltrate through the soil and sand so as to avoid underground contamination on land and at sea.
18. Necessary bunded walls shall be provided around the diesel / oil storage tanks, standby generators to cater for any accidental spillage and leakage.
19. Given that there will be a change in the landform and possible accumulation of water on the proposed development site, the proponent shall ensure that the natural surface water drainage, both upstream and downstream of the site is not altered so as to avoid flooding of adjoining properties to the satisfaction of the Water Resources Unit.
20. The proponent shall make provision for an appropriate means of discharging storm water through mud/silts traps and hydrocarbon separators prior to open discharge to the receiving environment.
21. Any existing natural water drain found on the proposed development site shall be upgraded and maintained so as to prevent flooding and ponding of water on the site.
22. All surface drainage infrastructures including soakaways shall be designed and constructed to the satisfaction of the Local Authority and the Road Development Authority.
23. All domestic wastewater generated from the ablution and washing facilities at the main building at Bain des Dames shall be disposed of to the public wastewater system. The proponent shall apply for a sewer connection at the

Wastewater Management Authority for the building at Bain des Dames. No connection to the public sewer connection shall be undertaken without the prior approval of the Wastewater Management Authority. Prior to start of the construction, the proponent /consultant shall liaise with the Wastewater Management Authority with respect to the disposal of domestic wastewater during the construction phase.

24. The proponent shall ensure that the conditions of wayleave listed as per Wastewater Management Authority's letter dated 12 April 2017 bearing Reference: WMA/BOI/PROJ/8, addressed to the proponent, are strictly adhered to.
25. The proponent shall be fully and solely responsible for diversion, replacement or upgrading of the existing wastewater system if same is required for the implementation of the DOWA project. The proponent shall bear all costs for such diversion, replacement or upgrading which shall be carried out by the proponent to the satisfaction of the Wastewater Management Authority. The Wastewater Management Authority shall in no case be held responsible for damages caused to the public wastewater system as a result of activities carried out under the DOWA project.
26. During the implementation of the DOWA project, the proponent shall at all times be responsible for protection of the existing wastewater system and for ensuring that no disruption occurs in the proper functioning of the wastewater system as a result of activities under the project. Any damage caused to the public wastewater system as a result of the activities under the DOWA project shall be repaired by the proponent in a timely manner and to the satisfaction of the Wastewater Management Authority. The proponent shall bear all costs associated with such repairs.
27. The proponent shall comply with all the conditions as set out in the Way Leave Agreement with the Mauritius Ports Authority for the laying of the deep sea water pipelines.
28. Approval/wayleave shall be sought from the Road Development Authority prior to any construction and connection works on RDA roads. A programme of works with the date of start, duration and completion of the works shall be submitted to the Road Development Authority prior to start of works. All

conditions of wayleave from the Road Development Authority shall be strictly adhered to.

29. The proponent shall ensure that the hydraulic capacity of all bridges and culverts along the proposed works is maintained. Any part of the existing RDA road which may be damaged during the works shall be restored to a level acceptable level to the Road Development Authority at the proponent's costs.
30. The proponent shall obtain the approval of the Traffic Management and Road Safety Unit with respect to traffic/safety measures prior to carry out works along RDA roads.
31. 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, noise and water pollution.
32. After the execution of works, all precautionary measures shall be taken by the proponent so that no residual construction materials are left in the sea.
33. Any modifications or addition of new components in connection with the project shall require authorization from the Department of Environment and a fresh EIA may be requested.
34. Necessary measures shall be taken during all phases of the project so as not to cause any pollution or nuisance to the public and surrounding environment.
35. The onus of the undertaking shall lie solely on the proponent. In case of any negative impact caused and any erosion on site or off- site, the proponent shall at his own cost, redress the harm caused to the satisfaction of the relevant authorities, including the Department of Environment and the Ministry of Ocean Economy, Marine Resources, Fisheries and Shipping.
36. 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.