

**Port :** Alexandria and Dekhela port authority

	Requirements as per local regulations
Territorial water	12 nautical miles
Visible emission	-ship must decrease its speed to decrease the emission and move with tugboat starting from outer anchorage area until the berth - ship must use scrubber on her stacks inside port
Fuel restrictions	-No restrictions for fuel type -There is a possibility for ship bunkering with low sulfur fuel (0.5%)
Use of incinerators	-Prohibited in port area , territorial waters and economic waters
Discharge of gray water	-Prohibited in port area, territorial waters, and economic waters and ship must ask for reception facility and the drain connections in ship must be standard (as in attached table) -if reception facility is not available, discharge of gray water must be stored in portable storage tank and discharged in nearest next port
Discharge of treated black water	-Prohibited in port area, territorial waters, and economic waters and ship must ask for reception facility and the drain connections in ship must be standard (as in attached table) - if reception facility is not available discharge of treated black water must be discharged at distance at least 4 nautical miles from the nearest land - by any way , it is prohibited for ship to discharge sewage in the retention tanks by one time, but the discharge should be continuously - discharge should be done when the ship under way with speed not less than 4 knots - sewage discharge must be compatible with standards and specifications of law 4 for 1994 (attached) - draining process must not cause of visible floating solid bodies in territorial waters and doesn't cause change in water color
Discharge of de chlorinated pool/spa water	-prohibited in port area , territorial waters and economic waters and the ship must ask for reception facility
Discharge of ballast water	-prohibited to be discharge in port area without replacement the ballast water -replacement of ballast water must be at least 200 nautical miles from the nearest land and in waters not less than 200 meters deep, if the ballast water cannot be replaced at these points, the replacement shall take place at a distance at not less than 50 nautical miles from the nearest land and in waters with a depth of not less than 200 meters -ballast water that will be replaced should have the standard criteria (attached)
Allowance of live vegetation on open decks	Permitted with storage of irrigation water in a suitable tanks until delivered to reception facility in port
Discharge of comminuted food waste	Permitted with the process of grinding and crashing the food waste and discharging at distance not less than 12 nautical miles from the nearest land
Special considerations for coastal and /or marine life	Permitted – no exception
Additional information	-it is not allowed to discharge the dangerous waste in water or in beach like (paints/electronic waste/pesticides/ charger/ batteries/hydrocarbons) and it is not allowed to delivered to reception facility) -it is not allowed to use the paints that contain environmental hazardous solvents and the paints must be environmentally safe -the paint of ship must be antifouling paint and not contain TBT -the ship must be prepared with equipment of oil pollution control (booms/ absorbent material)

## **Attachment**

### **1- Drain connection specification for gray water and black treated sewage water**

<b>Description</b>	<b>Dimension</b>
Outside diameter	210mm
Inner diameter	According to pipe outside diameter
Bot circle diameter	170 mm
Slots in flange	4 holes 18 mm in diameter equidistantly placed on a bolt circle of the above diameter , slotted to the flange periphery. The slot width to be 18 mm
Flange thickness	16 mm
Bolts and nuts: Quantity and diameter	4 , each of 16 mm in diameter and suitable length
The flange is designed to accept pipes up to a maximum internal diameter of 100 mm and shall be of steel or other equivalent material having a flat face. This flange, together with a gasket of oil- proof material shall be suitable for service pressure of 600 Kpa	

### **2-standard value of ballast water**

- less than 10 living organism in m<sup>3</sup> that its size is 50 µm or more
- less than 10 living organism in each mm that its size between 10-50 µm
- for indicator pathogens:
  - cholera vibrio (O1, O139) : not more than 1 unite colony/100 ml
  - E.coli : less than 250 unite of colonies / 100 ml
  - enterococcus : less than 100 unite of colonies/ 100 ml

**3-Criteria and specification of water that will be discharged at sea water  
according to environmental law 4 year 1994**

<b>criteria</b>	<b>Maximum criteria and specification by mg/l</b>
temperature	Not more than 5 c <sup>0</sup> of normal temperature with maximum temperature 38 C <sup>0</sup>
PH	6-9
color	Free from coloring agent
BOD	60
COD	100
TDS	More or less 5 % of TDS
TSS	60
H <sub>2</sub> S	1
oils	15
Total P	2
Total N	10
phenols	0.015
NH <sub>3</sub> (N)	3
V	0.002
Se	0.001
Hg	0.001
pb	0.01
Cd	0.01
As	0.01
Cr	0.01
Cu	1
Ni	0.1
Fe	1.5
Mn	0.1
Zn	1
pesticides	0.05
CN	0.01
MPN for fecal coliform/100 cm <sup>3</sup>	1000
B	0.4