chemicals on board ships, and to provide an acceptable occupational and on-board living environment for seafarers.

7. With respect to requirements for ventilation and heating:

(a) sleeping rooms and mess rooms shall be adequately ventilated;

(b) ships, except those regularly engaged in trade where temperate climatic conditions do not require this, shall be equipped with air conditioning for seafarer accommodation, for any separate radio room and for any centralized machinery control room;

(c) all sanitary spaces shall have ventilation to the open air, independently of any other part of the accommodation; and

(d) adequate heat through an appropriate heating system shall be provided, except in ships exclusively on voyages in tropical climates.

8. With respect to requirements for lighting, subject to such special arrangements as may be permitted in passenger ships, sleeping rooms and mess rooms shall be lit by natural light and provided with adequate artificial light.

9. When sleeping accommodation on board ships is required, the following requirements for sleeping rooms apply:

(a) in ships other than passenger ships, an individual sleeping room shall be provided for each seafarer; in the case of ships of less than 3,000 gross tonnage or special purpose ships, exemptions from this requirement may be granted by the competent authority after consultation with the shipowners' and seafarers' organizations concerned;

(b) separate sleeping rooms shall be provided for men and for women;

(c) sleeping rooms shall be of adequate size and properly equipped so as to ensure reasonable comfort and to facilitate tidiness;

(d) a separate berth for each seafarer shall in all circumstances be provided;

(e) the minimum inside dimensions of a berth shall be at least 198 centimetres by 80 centimetres;

(f) in single berth seafarers' sleeping rooms the floor area shall not be less than:

(i) 4.5 square metres in ships of less than 3,000 gross tonnage;

(ii) 5.5 square metres in ships of 3,000 gross tonnage or over but less than 10,000 gross tonnage;

(iii) 7 square metres in ships of 10,000 gross tonnage or over;

(g) however, in order to provide single berth sleeping rooms on ships of less than 3,000 gross tonnage, passenger ships and special purpose ships, the competent authority may allow a reduced floor area;

(h) in ships of less than 3,000 gross tonnage other than passenger ships and special purpose ships, sleeping rooms may be occupied by a maximum of two seafarers; the floor area of such sleeping rooms shall not be less than 7 square metres;

(i) on passenger ships and special purpose ships the floor area of sleeping rooms for seafarers not performing the duties of ships' officers shall not be less than:

(i) 7.5 square metres in rooms accommodating two persons;

(ii) 11.5 square metres in rooms accommodating three persons;

(iii) 14.5 square metres in rooms accommodating four persons;

(j) on special purpose ships sleeping rooms may accommodate more than four persons; the floor area of such sleeping rooms shall not be less than 3.6 square metres per person;

(k) on ships other than passenger ships and special purpose ships, sleeping rooms for seafarers who perform the duties of ships' officers, where no private sitting room or day room is provided, the floor area per person shall not be less than:

(i) 7.5 square metres in ships of less than 3,000 gross tonnage;

(ii) 8.5 square metres in ships of 3,000 gross tonnage or over but less than 10,000 gross tonnage;

(iii) 10 square metres in ships of 10,000 gross tonnage or over;

(l) on passenger ships and special purpose ships the floor area for seafarers performing the duties of ships' officers where no private sitting room or day room is provided, the floor area per person for junior officers shall not be less than 7.5 square metres and for senior officers not less than 8.5 square metres; junior officers are understood to be at the operational level, and senior officers at the management level;

(m) the master, the chief engineer and the chief navigating officer shall have, in addition to their sleeping rooms, an adjoining sitting room, day room or equivalent additional space; ships of less than 3,000 gross tonnage may be exempted by the competent authority from this requirement after consultation with the shipowners' and seafarers' organizations concerned;

(n) for each occupant, the furniture shall include a clothes locker of ample space (minimum 475 litres) and a drawer or equivalent space of not less than 56 litres; if the drawer is incorporated in the clothes locker then the combined minimum volume of the clothes locker shall be 500 litres; it shall be fitted with a shelf and be able to be locked by the occupant so as to ensure privacy;

(o) each sleeping room shall be provided with a table or desk, which may be of the fixed, drop-leaf or slide-out type, and with comfortable seating accommodation as necessary.

10. With respect to requirements for mess rooms:

(a) mess rooms shall be located apart from the sleeping rooms and as close as practicable to the galley; ships of less than 3,000 gross tonnage may be exempted by the competent authority from this requirement after consultation with the shipowners' and seafarers' organizations concerned; and

(b) mess rooms shall be of adequate size and comfort and properly furnished and equipped (including ongoing facilities for refreshment), taking account of the number of seafarers likely to use them at any one time; provision shall be made for separate or common mess room facilities as appropriate.

11. With respect to requirements for sanitary facilities:

(a) all seafarers shall have convenient access on the ship to sanitary facilities meeting minimum standards of health and hygiene and reasonable standards of comfort, with separate sanitary facilities being provided for men and for women;

(b) there shall be sanitary facilities within easy access of the navigating bridge and the machinery space or near the engine room control centre; ships of less than 3,000 gross tonnage may be exempted by the competent authority from this requirement after consultation with the shipowners' and seafarers' organizations concerned;