

## 5.6 WATER BALLAST SYSTEM

The ballast pumps to be provided in the engine room with two running and one pump stand by/IG cooling water service as follows.

No. Three(3) sets Type Vertical, single stage, centrifugal Prime mover Single speed electric motor Discharge rate 2,500 m<sup>3</sup>/hr Total head 35 m at S.G 1.025 Material Refer to Section 7

The ballast pumps are to have remote start/stop control, and suction and discharge pressure monitoring in the CCR integrated into the IAS, as well as local control.

The ballast system is to consist of a ring main with branches to each ballast tank.

All designated ballast tanks including peak tank which may be used for ballast water tanks to be capable of being filled or discharged by any ballast pump.

Surge protection devices (vibration type level switch) to be fitted at ballast main lines (4 - fore & aft, P&S) for interlock of ballast pump start and concerned valve operation when ballast main lines are not suitably flooded.