8. GENERAL CONCLUSION

In the present study, the physico chemical, biological and bacteriological properties vary may be due to influence of total dissolved solids, sulphate, silicate, phosphate, chromium, mercury, arsenic, cadmium, chlorophyll, gross primary productivity and coliform. The marine water and sediment properties exceeded higher standard value 94% sampling stations and it may be due to rainfall dilution and anthropogenic activity. The sampling stations classify three categories such as most polluted, moderately polluted and slightly polluted. The classify stations based on the anthropogenic activity, rainfall dilution. In the present study 26% most polluted site such as Newport- Thoothukudi, Light House- Thoothukudi, Thoothukudi Salt and Marine Chemical Ltd (TSMC), Fishing Harbour- Thoothukudi, Theraspuram, Tharuvaikulam, Kilakarai, and Valinokkam. 67% moderately polluted sites such as Vellapatti, Pattinammaruthur, Sippikulam, Naripyur, Mukkaiyur, Munthal, Meyanvalasai, Kattupallisal, Chinna Ervadi, Mayakulam, Sethukarai, Kalimankudu, Muthupettai, Pudumadam, Marigypattinam, Mandapam, Pamban, Chinna ErvadiDhanushkodi Thavukadu, Dhanushkodi. 7% slightly polluted sites such as Vembar and Vaipar.

8.1. Recommendations

- Pretreatment on Industrial waste and domestic wastes before discharge
- Proper coastal management