



## EXECUTIVE SUMMARY

1. The Government of Kerala (GoK) is implementing the Kerala Sustainable Urban Development Project (KSUDP) with the assistance of Asian Development Bank. The goal of the programme is to improve the level, quality and sustainability of basic urban services in selected Urban Local Bodies (ULBs), contributing to improved quality of life.
2. This Initial Environmental Examination (IEE) has been prepared for the subproject in Kollam Municipal Corporation includes Rehabilitation of existing water supply scheme at Sasthamkotta
3. In this sub-project rehabilitation of existing structures of raw water main, water treatment plant and the clean water pumping main are done. Fixing up of 150mm dia pressure relief valve suitable for 700mm diameter pipe near pump room, water meter near aerator for measuring the quantity of raw water pumped to 37.5MLD plant, fixing up of 150mm kinetic air valve at elevator portion for expelling more volume of air during pumping and for sucking more air during stoppage of pump sets are done In the case of raw water main.
4. In the case of WTP, damaged M S chequered plate on the MS bridge of clarifloculator having 1.2m width has to be replaced by aluminum chequered plate off size not less than 6mm thick for both the bridges, entire damaged vertical hanging supports has to be replaced, MS rubberized wheels for moving peripheral concrete floor need to be replaced. MS sheet provided for covering drive motor and mechanism need to be replaced by aluminum sheets. It is recommended to provide 'V' notched FRP/MS weir throughout the circumference for the uniform collection of clarified raw water. It also recommended to provide circular baffles on the inner side of clarifoculator.
5. In rapid sand filter the flow controller, rate of flow indicators and head indicators are not in working condition; the same needs replacement. In the case of wash water tank, it is recommended to go for a level guard to avoid the overflow. The pump sets installed for pumping up to wash water tank is to be replaced by centrifugal pump sets with soft



- drive starter, which can be operated based on signals from over head tank. Provision should be made for the supply of one number of 15HP air blower with its accessories has one of the air blow is beyond repairable condition. For increasing the efficiency of filter beds it is recommended to replace the filter media of all beds.
6. In order to draw more water by increasing the carrying capacity of clear water main, that is proposed to lay a new main of 300 mm DI pipes for a length of 1750m from Vellayittambalam to the newly constructed sump of capacity 2lakh liters. Booster pump sets at Anathavalleshwaram booster station need to be replaced by a new set.
  7. An Environmental Management Plan (EMP) is proposed as part of this report which includes mitigation measures for significant environmental impacts during implementation and the responsible entities for mitigation, monitoring and reporting.
  8. Public consultation & information disclosure and grievance redress mechanism is also suggested. An environmental monitoring program with anticipated expenditure and periodicity of monitoring is incorporated,
  9. Proposed sub-project will greatly improve the overall environmental quality of Kollam Municipal Corporation area. The sub-project is considered not to have significant environmental impacts and classification B is considered appropriate. The Initial Environment Examination report has thoroughly assessed all potential environmental impacts associated with the sub-project. The environmental impacts identified by the study are manageable, and Kollam Municipal Corporation will implement the mitigation measures stated in the Environmental Management Plan and Initial Environment Examination reports. Therefore, no further environmental assessment is needed.
  10. It is concluded that the proposed sub-project should proceed to the implementation phase, subject to the mitigation measures and environmental monitoring programs identified in the Initial Environment Examination and the recommendations made.