

## **Project summary**

### **Augmentation of WSS to Malayattoor and Ayyampuzha panchayaths**

The proposed Water Supply Scheme is for augmenting the existing scheme “WSS to Ayyampuzha and Malayattor-Neeleeswaeram panchayaths” benefitting ultimate population of 49277 nos. in the year 2050. A new 8.00MLD treatment plant is proposed to be constructed near the existing slow sand filter at Illithodue and raw water is pumped through the 400mm DI K9 pumping main using 45 HP vertical turbine pump set to be erected in the existing well cum pump house at Illithodue where Periyar is source. The treated water from the WTP is collected in the 8.00lakhs litre capacity clear water sump. The clear water from the sump is to be pumped with 80 HP VT pump set to the existing GLSR of 6.17 LL at Illithode for the water supply to the Malayattoor Panchayath. Clear water pumping mains for Malayattoor GLSR is 300 mm DI K9 -1835m. The proposal is for 16 hours direct pumping to Kannimanglam and Pandupara zones with 15.00 HP VT pump set through 150mm DI K9 pumping main, combined clear water pumping main of 250mm DI K9 is proposed to the existing GLSR of capacity 2.00LL at Amalapuram and also to the boosting station of 2.5LL capacity at Ukkukallu. From the existing boosting station it is proposed to pump to the Existing GLSR at Lower Thannikkode of capacity 1.00LL and a combined pumping is proposed to the existing GLSR of capacity 1.5LL and to the existing boosting station at Chully of 1.5LL capacity. It is proposed to pump clear water to the existing GLSR at Kunthiri of capacity of 0.6LL at upper Thannikkode and to the proposed 3.0 LL OHSR at Chully boosting station. By implementing this scheme the drinking water scarcity in the project area can be solved.