

ESTIMATE REPORT

Name of work : KIIFB Project:TRAN10: WRD025- 06 -WSS to Ayyappankovil Panchayat in Idukki District-Part II-Package-II- Supplying, laying and commissioning 350mm, 300mm& 250mm DI pumping/ gravity main and 80mm GI pumping main, improvement work of Kalthotty sump& pump house, construction of pipe line bridge, design and construction of 1.00LL capacity sump& pump house at Nariyanpara, providing wash water disposal pipe line at WTP Alady and interconnection works etc

ESTIMATE REPORT KIIFB Project -WSS to Ayyappankovil Panchayat in Idukki District- Part II- Package II The estimate is prepared for completing the balance pipe laying works including construction of an intermediate sump and pump house, gap filling and interconnection works of the project 'ARP/NRDWP- CWSS to Kattappana and Ayyappankovil Villages' and commissioning the Project. The following components are included in package II works.

1. Civil works

App A - Includes balance portion of work under risk and cost of Sri. S.Raju, Contractor (1) Supplying, laying, testing and commissioning of 350mm and 300mm DI K9 Gravity main from WTP, Alady to Kalthotty sump cum pump house (As per KIIFB proposal it is pumping line) (2) Supplying, laying, testing and commissioning of 300mm DI pumping main from Kalthotty junction to Nariyanpara intermediate sump (3) Supplying, laying, testing and commissioning of 250mm DI pumping main between Nariyanpara and Idukki Kavala (Balance work). App B - All other works for commissioning the Existing Project (1) Improvement works of Kalthotty sump cum pump house (2) Design and construction of pipe Line Bridge across Kattappana River near 20 Acre. (3) Providing wash water disposal pipe from WTP, Alady with 350mm DI pipe. (4) Supplying & laying 80mm GI pumping main from Nariyanpara intermediate pump house to GLSR at Nariyanpara Top (5) Design and construction of 1.00LL capacity sump and pump house at Nariyanpara Intermediate (6) Supplying, laying, testing and commissioning of 80mm GI pumping main from WTP Alady to Alady Kurisumala GLSR (7) Pipe line charging, stabilization and interconnection works etc (8) Road restoration works (a) PWD Road cutting restoration works (b) Panchayat bituminous road cutting restoration works (9) Providing flow meters

1. CIVIL WORKS

App A - Balance portion of work under risk and cost of Sri. S.Raju, Contractor (1) Supplying, laying, testing and commissioning of 350mm and 300mm DI K9 Gravity Main from WTP, Alady to Kalthotty sump cum pump house Total length of pumping main from WTP, Alady to Kalthotty sump is 7593m. 350mm DI K9 pipe - 305m and 350 mm MS pipe -207m was already laid under ARP/ NRDWP scheme. Balance length 7081m (350mm DI K9-5248m + 300mm K9-1833m) is included in this component. (2) Supplying, laying, testing and commissioning of 300mm DI pumping main from Kalthotty junction to Nariyanpara intermediate sump As per the KIIFB proposal, a common pumping main is proposed from WTP Alady to Kalthotty sump/ Nariyanpara sump. Length of Kalthotty junction to Nariyanpara intermediate sump is 4830m and supplying and laying of this portion with 300mm DI pipe-4830 M is included in this component. (3) Supplying, laying, testing and commissioning of 250mm DI pumping main between Nariyanpara and Idukki Kavala (Balance work). Between Nariyanpara Intermediate sump and Idukki Kavala, the length of 250mm

pipe line is 5653m. Out of this 4488m was already laid under ARP/NRDWP scheme by the contractor Sri.S.Raju. Balance 1165m is included in this component. App B - All other works for commissioning the Existing Project(1) Improvement works of Kalthotty sump cum pump house The existing sump and pump house at Kalthotty was constructed about 10 years back. The maintenance work of the sump is very essential including scraping, cleaning and painting works and re-plastering the damaged portion. Also a ramp to the top of sump, compound wall and toilet facilities are essential at Kalthoty pump house. So provision for the above items are included in the estimate.(2) Design and construction of pipe Line Bridge across Kattappana River near 20 Acre For laying 250mm DI pumping main from Nariyanpara intermediate pump house to Mulakamedu GL tank/ Kochuthovala GL tank, the pipe line has to be laid across Kattappana River in Kattappana - Kuttikkanam PWD road. For this a steel bridge is proposed at centre with span of 18m and both side RCC with span of 10m each. The width of the pipe line bridge proposed is 1.80m. Provision for laying fabricated MS pipe of shell thickness 8mm and diameter 250mm across the river and connecting to the existing 250mm D I pipe is also included. (3) Providing wash water disposal pipe from WTP, Alady to the nearest natural drain with 350mm DI pipe. Providing treatment plant backwash water disposal pipe using 350mm DI pipe for a length of 400m is included in this component. The estimate includes provision for anchor blocks, valves, valve chambers and cost of materials etc.(4) Supplying, laying, testing and commissioning of 80mm GI pumping main from Nariyanpara intermediate pump house to GLSR at Nariyanpara Top Pumping main from proposed intermediate sump at Nariyanpara to existing GL tank at Nariyanpara top is included in this component. Laying 80mm GI pipe - 1177m, anchor blocks, valves etc are included in the estimate.(5) Design and construction of 1.00LL capacity GL sump and pump house at Nariyanpara AS per the DPR, providing water supply to elevated place of Nariyanpara, area multi-level pumping is required from water treatment plant at Alady to Nariyanpara top. Construction of 1.00LL capacity intermediate GL sump and pump house, compound wall etc are included in this component. Land proposed for construction is private owned land and land owner and Kattappana Municipality agreed to hand over 10 cent lands to Kerala Water Authority. Documents uploaded.(6). Supplying, laying, testing and commissioning of 80mm GI pumping main from WTP to Alady Kurussumala GLSR 2.28LL capacity Ground level tank already constructed at Alady Kurussumala. Water is to be pumped to this tank from TP sump. Total length is 310m. 80mm G I Pumping main is to be laid through the rocky portion. So necessary RCC anchor blocks for pipe line supports is included in this estimate.(7) Pipe line charging and stabilization and interconnection works etc All the distribution systems in 4 zones are laid several years back. Pipe line charging and commissioning, interconnection works, leak rectification works etc in the existing pipe lines are to be done during charging of the existing pipe lines.(8) Road Restoration Works Some portion of pumping main, gravity main and distribution lines are to be laid through PWD roads and major Panchayat/ PMGSY roads. As per the KIIFB guide lines, the road restoration works are to be done by KWA. So working estimates for PWD

road restoration and Panchayat road restoration are included in this component.(9) Providing flow metersFor measuring the supply of water from major service reservoirs, the flow meters are necessary. So provision for the same is included in the estimate Necessary drawings, certificates, reports etc are uploaded. The estimate is prepared as per DSR 2016 in Price Live Software. Provision for GST amount is also included in the estimate.



Kerala Water Authority

PRICE