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**National Research  
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## CEEX PROJECT/PROAQUA

### Technology/Plant for Potabilization of Ground Water

#### WAY FOR TREATMENT OF GROUND SOURCES:

- ✓ Oxidation of iron, manganese ions in reduced form  $\pm$  sulphides in using chlorine dioxide ( $\text{ClO}_2$ )
- ✓ Filtration in two steps on natural zeolites with different granulations;
- ✓ Final disinfection.



#### Performances:

- Advanced removal of inorganic pollutants (Mn, Fe,  $\text{S}^{2-}$ , turbidity/ suspensions), with efficiency  $\leq 99\%$ ;
- Diminishing of risk for disinfection by-products formation (THM) over the admitted limit.

#### Potential beneficiaries:

- Clusters of houses;
- Pensions/hotels;
- Village schools.

### Technology/Plant for Treatment of Surface/ Underground Water

#### WAY FOR TREATMENT OF SURFACE SOURCES WITH LOW TURBIDITY ( $< 20 \text{ NTU}$ ):

- $\pm$  Oxidation/disinfection with  $\text{ClO}_2$ ;
- Filtration on membranes (MF/UF modules );
- Final disinfection.



#### Performances:

- Reduction of turbidity and associated organic load, with efficiencies over 90%;
- Diminishing of soluble organic content ( $\eta\text{TOC} = 30\%$ );
- Advanced reduction of bacteriological load ( $\eta \leq 99\%$ );
- Diminishing of risk for disinfection by-products formation (THM) over admitted limit.

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