**AFM® Enquiry:**

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| **Company:****Contact Name:** **Country/ Location:**  | **Project Name / Project Info** |
| **Water source (specify type/details):** | **Filtration Flow Rate m3/d (max./min.)**  |
| **Ground water** |  |  |
| **Surface water** |  |  |
| **Sea water (open/well intake)** |  |  |
| **Reservoir / lake** |  |  |
| **Industrial waste water**  |  |  |
| **Biological waste water**(Secondary or Tertiary) |  |  |
| **Raw water characteristic or type /analysis:**  |
| ***Parameter*** | ***Value/Unit*** | ***Parameter***  | ***Value/Unit*** |
| **General Chemistry** |  | ***Metals*** |  |
| Temperature |  | Aluminium |  |
| pH |  | Antimony |  |
| Conductivity (@20oC) |  | Arsenic |  |
| Alkalinity / Hardness |  | Boron |  |
| Total dissolved solids |  | Cadmium |  |
| Suspended Solids  |  | Chromium |  |
| PSD - d50 / d10 / fines |  | Copper |  |
| Turbidity NTU |  | Iron |  |
| SDI-15 (Silt Density Index) |  | Lead |  |
| Dissolved Oxygen |  | Manganese |  |
| Colour |  | Mercury |  |
| Sodium |  | Nickel |  |
| Calcium |  | Selenium |  |
| Magnesium |  | Zinc |  |
| Potassium |  | - other metal-  |  |
| Chloride |  |  |  |
| Sulphate |  | **Non Metals / Others** |  |
| Nitrate |  | Boron |  |
| Phosphate |  | Silica (reactive/dissolved) |  |
| Ammonium / Ammonia (NH4 / NH3 volatile) |  | Silica (colloidal) |  |
| Bromide |  |  |  |
| Fluoride |  | **Organic Chemistry** |  |
|  |  |  |  |
| **Biology** |  | Solvent extractable Oganic compounds |  |
| TOC / BOD |  |  |  |
| DOC |  |  |  |
| Total Viable Count (TVC) @ 22oC  |  |  |  |
| Total Viable Count (TVC) @ 37oC |  |  |  |
| P. aeroginosa |  |  |  |
| E.Coli |  |  |  |
| Cryptosporidium |  |  |  |
| Algae |  |  |  |
| **Filtration process** | ***Value/Unit*** | **Process Description & Comments** |
| New or Existing media filtration process  |  |  |
| Feed water storage volume (before filtration) |  |  |
| Filtration / Backwash Velocity m/hRapid Gravity (tank dimension)Vertical Pressure (tank dimensions)Horizontal sand filter (tank dimensions)Moving bed sand filter (tank dimensions) |  |  |
| Volume of quartz sand (kg, mt, m3)Volume of other media (name media)Grade of filtration & support mediaAnthracite (used/not used) |  |  |
| **Mechanical Pre-Treatment before media filtration** | ***Value/Unit*** | **Process Description & Comments** |
| Coarse screenFOG removal (type)ClarifierDissolved air FlotationOther Media Filtration |  |  |
| **Chemical Pre-Treatment before media filtration** | ***Value/Unit*** | **Process Description & Comments** |
| Pre oxidation (Chlorine, Chlorine dioxide, KMnO4)Aeration (ozone or O2)Ferric hydroxide absorption Flocculants / coagulants (type, name)Disinfection chlorine/chlorine dioxide pH correction (acid, alkaline)Neutralization (e.g. Lime, NaOH dosing) |  |  |
| **Business Case** | ***Value/Unit*** | **Process Description & Comments** |
| Energy cost Chemicals costs (by type)Sludge volume Water used (backwash, rinse, etc.)Other filtration OPEX cost (specify) |  |  |
| **Describe specific filtration challenge(s) and targets to be addressed**  |
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