



QUESTIONNAIRE

FOR DRAINAGE SYSTEM FOR HIGH-RATE FILTERS SELECTION

Company Legal name _____

Address _____

Responsible person full name _____ Position _____

Tel _____ Fax _____ E-mail _____

1. Filter type:

- High-rate filter Contact clarifier

2. Quantity of filters (pcs) Total..... in operation

3. Inflow rate of water to be treated, (m3/day) total _____ per one filter _____

4. Number of sections in filter:

- 1 2

5. Filtering direction:

- Down-stream Up-stream

6. Dimensions of the one section of filter bottom, (m) Length _____ Width _____

7. Loading

Loading type by layers	Height, m	Size, mm

8. Characteristics of the Drainage system

8.1. Distribution manifold type:

- Central reinforced concrete channel Lateral reinforced concrete channel
 Central steel manifold Lateral steel manifold
 Steel perforated manifold inside the reinforced concrete channel

8.2. Distribution manifold dimensions (Width×Height (Diameter) ×Length) _____

8.3. Central support structure facing:

8.4. Drainage system characteristics

Index	Value for:	
	Water system	Air system
a) Material		
b) Number of pipe lines in one section, (pcs)		
c) Diameter of pipe, (mm)		
d) Branch length, (m)		
e) Perforation type (round or slot)		
f) Number of holes (slots) in line		
g) Diameter of round holes or slot dimensions, (mm)		

9. Distance between the filter bottom and the catchment tray (overflow) _____ m.

10. Distance between the axis of drainage pipe and filter bottom _____ mm.

11. Filter rinsing: by pump _____ (type), from water tower, Head _____ m.

Index	Water	Air and water		
		Stage 1	Stage 2	Stage 3
Intensity, l/(sec×m ²)				
Duration, min				

11.1. **Number of rinsing per day** _____

11.2. **Presence of grit in rinsing water** _____

11.3. **Presence of grit in clarified water storage tank** _____

12. Filter drawings and high-altitude scheme of facilities from the sedimentation tanks to the clarified water storage tank

13. Please specify what kind of problems occurs during filter operation

Responsible person Full name _____ (**Signature** _____)