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Analysis of Technical Indicators of the "4k" Channel in The Karaulbazar District

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Annotation. This article provides information on the technical indicators of the 4K channel, which is located in the guard farm District of the Bukhara region. A study of the technical condition of the channel revealed deficiencies and provided a summary and suggestions for eliminating existing deficiencies and improving the technical condition.

Keywords. Channel, concrete coating, filtration immersion.

3-K channel is located in Qarovulbazar district of Bukhara region. It was commissioned in 1983. 3k channel supplies water to the lands of Qarovulbazar and Vobkent districts. Water is supplied from the KBMK channel through the Garkovul Bazar pumping station. The maximum capacity of the canal (in the main part) is 6 m3/s The total length of the channel is 6.4 km. The upper part of the channel is 10 m wide and 2.3 m deep. the bottom of the channel is 2 m wide, the channel bed is made of concrete coating, and the slope is 2 m. The thickness of the concrete coating is 10 cm, and a waterproof film is laid over the coating. The water depth in the channel is 2 m. normal depth is 1.7 m, minimum depth is 0.6 m. The slope of the channel is 0.0005. The canal is mainly excavated from depth. Irrigated area: 1184 ha. Balance value: 110229518 sums. As a result of many years of use, in some places of the channel, the concrete coating has moved, the anti-filtration films have torn, and water has formed funnels and is flowing underground. As a result of some parts being muddy, the ability to pass water has decreased. Therefore, repairs are required to prevent water loss.

The 29.2 km length of the canal needs to be de-cluttered by machinery. 53.8 million soums are required for this. Also, 18.0 million soums are required for the repair and operation of 12 structures in need of repair, and 1.7 million soums for the restoration of 5 hydroposts. The estimated cost of the total construction and maintenance works is 73.5 million soums

3K for repairing the dam of the channel.

3K channel was commissioned in 1983. 3K channel is located in Qarovulbazar district. It supplies water to Qarovulbazar district. The total length of the canal is 6.4 km. During many years of use, parts of the canal embankment were eroded, cracks appeared in the concrete coating and became unusable. Therefore, there is a need to build anti-erosion measures and make monolithic concrete.

- The maximum capacity of the canal (in the main part) : 6 m3/s
- Concrete pavement: 6.4 km
- The soil is fertile: no
- Irrigated area: 1184 hectares.
- Balance value: soum

Technical Specifications:
1. Estimated value of completed works - 13.6 mln. Sums
2. Earthworks carried out by mechanisms - m. m^3
3. The section to be repaired is 0.9 km long.
4. Monolithic concrete M- 150 -65.0 m^3

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