

SCHEME OF COMPLEX USAGE KAFIRNIGAH RIVER

By borders of basin kafirnigah river in a north is Gissar chain, separable it from apron plain Zeravshan, in west - chains Babatan and Toouktau, the apron plain Sarhandariy, in east - chain Aktay flanks to which one.

The river rises from glaciers of a southern decline Gissar chain and runs in Amu-dariy. The main sink it is reshaped by coalescence of the several multiwater rivers, largest of which one are of Sarday-Myona, Varzob, Hanaka and Ilyak.

The river disposes considerable potential hydropower resources. On a site in 300 kms, from coalescence of the rivers Sarday-Myona and Sarvo up to an ostium, the dip of the river makes 870 m, mean potential power 1120 h.kwt and annual energy - 9,6 bil.kwt.h. The hydropower resources of the rivers of Sarday-Myona and Sarvo make 9,3, rivers Varzob - 6,3 and Hanaka - 0,9 bil.kwt.h..

Economically expedient sizes of usage of hydropower resources, under the tentative datas, are determined in 5 bil.kwt.h.. To the present time in basin on Varzob river the stage hydroelectric station from three installations derivation of a type, general power 25 h.kwt and development 190 mil.kwt.h of the electric power is constructed.

The basin of the river densely is settled, here, apart from dabbled agriculture, the industry in is considerably advanced

Dushanbe, capital of Tajikistan, Vahdat, Takob and other settlements.

In basin Amu-Dariya Kafirnigan is the river, for which one most seasonal and annual non-uniformity of a sink is expressed sharply. The sink of the river in the season of April - July makes 70 % from annual, and for remaining eight months it is necessary only 30%. Maximum supervision the consumption is peer 1290 m³/s, minimum - 32,6 m³/s.

Regulation of a sink Kafirnigan river it is planned for the solution of following primary goals: maintenance guaranteed water consumption in basin Kafirnigan and transportation of a part of a sink in Surkhan-Darya and Shurobad irrigation regions;

Complex irrigation and power usage stream; decontamination of waters.

Main parameters

No s	Name hydroelectric stations	Stated power, thous kWt	Production of electric power,	Pressure, m
1	2	3	4	5
Varzob river				
1	Pugus	16.2	0.97	65
2	Guskhar	17	0.101	34
3	Varzob-1	7,15	0,05	19
4	Varzob-2	14,76	0,08	78
5	Varzob-3	3,52	0,007	19,9
Kafirnigan river				
1	Vistan	54	0.219	125
2	Sarvoz	42	0.199	55
3	Yvroz	90	0.5	77
4	Bagjigdin h/n	125	0,6	64
5	Lower-Kafirnigan h/n	72	0.63	70