

**UDK 626.83**

**NASOS AGREGATLARI TEXNIK SUV TA'MINOTI TIZIMI  
TAHLILI.**

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**Annotatsiya.** Ushbu maqola Amudaryo havzasida joylashgan Quyimozor yordamchi nasos stansiyasining texnik suv bilan ta'minlash tizimi haqida ma'lumotlar berilgan. Tizimdagi muammolar o'rganilgan va ularni yechish bo'yicha tegishli xulosalar berilgan.

**Kalit so'zlar:** Nasos, favqulotda o'chirish, nasos stansiya, texnik suv ta'minoti, gidrosiklon, filtr, bosimli quvur, agregat, salnik.

**ANALYSIS OF TECHNICAL WATER SUPPLY SYSTEM OF PUMP  
UNITS.**

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**Annotation.** This article provides information about the technical water supply system of the Kuyimozor auxiliary pumping station located in the Amudarya basin. Problems in the system are studied and appropriate conclusions are given to solve them.

**Keywords:** Pump, emergency shut-off, pumping station, technical water supply, hydrocyclone, filter, pressure pipe, unit, tank.

Ma'lumki Amudaryodan oqib kelayotgan suvning tarkibida loyqa miqdori yuqori bo'lib, ba'zi bir hollarda 7-9 gr/l gacha boradi. Nasos stansiyasi jihozlarining ishonchli ishlashi uchun texnik suvni turli xil mexanik zarrachalardan tozalab yetkazib berish lozim.

Amudaryoda suvning loyqaligi katta bo'lganligi sababli, nasos stansiyalaridagi filtrlarni loyqa zarrachalar bilan tez to'lib qolishi kuzatildi. Nasos stansiyasidan olingan ma'lumotlar shuni ko'rsatdiki loyqa to'lib qolgan filtrni tozalash uchun nasos qurilmasini to'xtatib filtrni tozalash ishlari bajarilgan. Bunday xolatlar ayniqsa qishloq xo'jalik ekinlari uchun talab qilinadigan suv katta miqdorda kerak bo'ladigan davrda ko'p uchragan. Chunki suv sarfining oshib borishi bilan daryodan olinayotgan suvning tarkibidagi loyqa miqdori oshib boradi.

Nasos stansiyasini texnik suv bilan ta'minlash tizimini takomillashtirish muhim masalalardan biri hisoblanadi. Bu muammoni ilmiy asoslangan holda yechish qishloq xo'jalik ekinlarining suvga bo'lgan talabini doimiy ta'minlash imkoniyatlarini yaratadi.

Texnik suv bilan ta'minlash tizimi nasos stansiyadagi texnologik jihozlarni sovitish va moylash uchun ishlatiladi.

Nasos agregatlarining soni, suv berish unumdorligi va quvvatiga qarab nasos stansiyalarida markazlashgan, guruhlashgan va blokli suv ta'minoti



aylanma harakat orqali yuqoriga ko‘tariladi va qopqoqdan teshik orqali chiqarib olinadi.

Tizimdagi asosiy muammo bu – filtrlarning tez to‘lib qolishidir. Filtrlarning loyqadan to‘lish davomiyligi mavsumiy o‘zgaradi. Ya’ni vegetatsiyaning yeng yuqori davri bo‘lgan yoz oylarida filtrlar bir hafta vaqt intervali bilan tozalansa, bu interval novegetatsiya davri bo‘lgan va nisbatan daryoning loyqaligi kam bo‘lgan qish oylarida bir oygacha uzayadi. Filtrlarning to‘lishi nasos agregatini to‘xtatishga olib keladi. Bu yesa o‘z navbatida,

-vaqtning yo‘qotilishiga;

-umumiy suv sarfi kamayishiga;

Har bir nasos agregatining dvigatelida va podshibniklarida issiqlik datchiklar o‘rnatilgan bo‘lib, harorat 80°C ga yetganda markaziy kompyuter ekranida qizil rangda ogohlantirish signalini beradi. So‘ngra nasos agregati o‘chiriladi va filtrlar qo‘l kuchi yordamida tozalanadi.

**Xulosa.** Quyimozor nasos stansiyasining tabiati, iqlim sharoiti, tuproq tarkibi o‘rganildi va juda og‘ir sharoitda ya’ni yuqori temperaturada, loyqaligi yuqori bo‘lgan suvni uzatishi kerakligi aniqlandi. Bunday og‘ir sharoitda foydalaniladigan nasos stansiyasining ekspluatatsion holatlarini yaxshilash uchun qo‘yilgan talablarni bajarish muhim ahamiyatga egadir.

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