

**Scottish International Conference on Multidisciplinary Research and
Innovation – SICMRI 2025**

**THEORETICAL, CONSTRUCTIVE AND TECHNOLOGICAL SOLUTIONS FOR
CREATING WATER-SAVING TECHNOLOGY BASED ON BENTONITE**

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**BENTONIT ASOSIDA SUV TEJOVCHI TEXNOLOGIYANI YARATISHNING
NAZARIY, KONSTRUKTIV VA TEXNOLOGIK YECHIMLARI**

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Abstract: . Greening serves important functions not only for improving the aesthetic appearance of cities but also for ensuring ecological balance, air purification, noise reduction, and microclimate optimization.

Annotatsiya. Ko'kalamzorlashtirish nafaqat shaharlarning estetik ko'rinishini yaxshilash, balki ekologik muvozanatni ta'minlash, havoni tozalash, shovqinni kamaytirish va mikroiklimni optimallashtirishda ham muhim funksiyalarni bajaradi.

Keywords. Bentonite, Irrigation, Boulevards, Urbanization, desert.

Kalit so'zlar: Bentonite, sug'orish, xiyobonlar, urbanizatsiya, cho'l.

Suv tanqisligi muammosi bugungi kunda global miqyosda eng jiddiy ekologik va ijtimoiy-iqtisodiy muammolardan biri hisoblanadi. BMTning ma'lumotlariga ko'ra, dunyo bo'yicha 2 milliarddan ortiq aholi suv tanqisligi sharoitida yashaydi va bu ko'rsatkich iqlim o'zgarishi, aholi sonining o'sishi, urbanizatsiya hamda iqtisodiy faoliyatning kengayishi natijasida tobora ortib bormoqda [1]. 2050-yilga kelib, dunyo bo'yicha suv iste'moli 2015-yilga nisbatan 55% ga oshishi bashorat qilinmoqda [2].

O'zbekiston Respublikasi geografik joylashuvi va iqlim sharoitlariga ko'ra, tabiiy suv resurslari cheklangan mamlakatlar qatoriga kiradi. Mamlakat hududining 80 foizdan ortig'i cho'l va yarim cho'l zonalarida joylashgan bo'lib, yillik yog'in miqdori 100-300 mm ni tashkil etadi, bu esa global o'rtacha ko'rsatkichdan (800 mm) ancha past [3]. Shu bilan birga, suv resurslarining 80% dan ortig'i qishloq xo'jaligida foydalaniladi, qolgan qismi esa sanoat, kommunal-maishiy va boshqa ehtiyojlarga sarflanadi.

Shahar muhitida ko'kalamzorlashtirish tizimlari uchun suv ta'minoti alohida dolzarb masala hisoblanadi. Ko'kalamzorlashtirish nafaqat shaharning estetik ko'rinishi va rekreatsion potensialini oshirish, balki ekologik muvozanatni ta'minlash, havoni tozalash, shovqinni kamaytirish, iqlimni maqbullashtirish va shahar aholisining hayot sifatini oshirish kabi ko'plab muhim vazifalarni bajaradi[4].

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Shahar ko'kalamzorlashtirish obyektlari (parklar, bog'lar, xiyobonlar, ko'kalamzor hududlar va boshqalar) sug'orish tizimlari yordamida suvga bo'lgan talab mavsumiy ravishda o'zgarib, ayniqsa yoz oylarida keskin ortadi. Namangan shahri misolida, yozgi davrda (may-sentyabr) bir gektar ko'kalamzor maydonni sug'orish uchun o'rtacha 9000-12000 m³ suv sarflanadi [5]. Bu esa shahar suv ta'minoti tizimiga jiddiy yuk bo'lib tushadi.

Suv tanqisligi va ko'kalamzorlashtirish sohasidagi asosiy muammolar quyidagilarni o'z ichiga oladi:

№	Markaziy ko'cha nomi	Uzunligi (Km)	Uzunlik gorizontal (o'rtacha)
1	A.Temur ko'chasi (Hamkorbankdan- Jinoyat sudigacha)	2.9	2
2	N.Nomomgoniy ko'chasi (Jinoyat sudidan-Nodira kutubxonagacha)	1	2
3	B.Mashrab ko'chasi (Markaziy poliklinikadan -31-maktab chorraxasigacha)	1	2
4	Sirg'ali ko'chasi (1-maktab chorraxasidan –Tibbiyot kollejigacha)	0.7	2
5	Lutfiy ko'chasi (kabital bank binosidan –viloyat adliya boshqarmasigacha)	0.7	2
6	Ibrat ko'chasi (Tibbiyot kollejidan – Xamrox ko'cha kesishmasigacha)	1.23	2
7	U.Nosir ko'chasi (Viloyat muzeyidan A.Navoiy teatri binosigacha hamda viloyat va shahar hokimliklari ichki hovlisi)	1	2
8	Xurriyat ko'chasi (Tinchlik maydonidan-Markaziy bank chorrahasigacha)	0.45	2
9	Sanoat ko'chasi (31-maktabdan –Byeruniy sohili ko'chasi kesishmasigacha)	0.7	2
10	Istiqlol ko'chasi (viloyat xokimligidan –Hamroh ko'chasi kesishmasigacha)	1.03	2
11	G'irvonsoy ko'chasi (Kardiologiya chorrahasidan-toshkent choyxonasigacha)	1.5	2
12	To'raqo'rg'on ko'chasi (3-poliklinikadan –kardiologiya chorrahasigacha)	1.2	2
13	A.Navoiy ko'chasi (Vokzal maydonidan –Chorsu bozori chorrahasigacha)	1.05	2
14	Bank ko'chasi (shahar madaniyat bo'limidan –shahar bandlikka ko'maklashish markazigacha)	0.3	2
15	Nodira ko'chasi (7-maktab-standartgacha)	1	2
16	Marg'ilon ko'chasi (Nodira kutubxonasidan- Nestle binosigacha)	3.9	2

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17	Q'o'qon ko'chasi (Sardoba bozoridan-Qo'qon qishloq burilishigacha)	2.8	2
18	Boburshox ko'chasi (5-maktabdan-Eshobodgacha)	5.2	2
19	Uychi ko'chasi (Namangan ko'prigi –Endekrinalogiya shifoxonasigacha)	2.3	2
20	Uychi-Byeruniy sohili ko'chasi (Byeruniy sohilidan –Chorsu orqali 31-maktabgacha)	1.5	2
21	Q.Mamarasulov ko'chasi (byeruniy sohilidan SHFK ko'prigigacha)	1.1	2
22	Xamroh ko'chasi (Jinoyat sudidan _Mulla bozor Oxund masjidigacha)	2.4	2
	Jami:	37.96	7.592

Mahalliy bentonit konlari zaxiralariga ega bo'lgan O'zbekiston uchun, bentonit asosidagi suv tejovchi texnologiyalar ishlab chiqarish va qo'llash suv tanqisligi sharoitida ko'klamzorlashtirish tizimlarini barqaror rivojlantirish uchun istiqbolli yo'nalish hisoblanadi.

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