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TEXNOLOGIK CHANG XOSSALARINI TAVSIFLASH VA CHANG TOZALASH QURILMASI SINOVLARINI METODIK ASOSLASH

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Kalit so‘zlar:
texnologik chang, fraksion tarkib, mikroskopik tahlil, aerodinamik o‘lcham, namlik, suv yutish qobiliyati, namuna olish, o‘lchov ishonchliligi.

Annotatsiya. Tezisda texnologik chang zarrachalarining xossalarini tavsiflash va chang tozalash qurilmasi sinovlarini asoslash masalasi ko‘rib chiqiladi. Mahalliy korxona chiqindilari haqidagi tadqiqotlar hamda zarracha o‘lchash metodlari asosida namuna olish, fraksion va mikroskopik tahlil, namlik hamda suv yutish qobiliyatini baholash tartibi taklif etiladi. Geometrik o‘lcham bilan aerodinamik fraksiya, nam massa o‘zgarishi bilan ichki suv yutish va umumiy massa samaradorligi bilan fraksion samaradorlik o‘rtasidagi tafovutlar ajratiladi. Ilmiy gipoteza chang xossalari nazorat qilingandagina konstruktiv o‘zgarish ta’sirini ishonchli baholash mumkinligiga asoslanadi. Tajriba natijalari keltirilmaydi; keyingi tadqiqot uchun o‘lchash mezonlari va tekshirish shartlari belgilanadi.

Dolzarblik va maqsad. Toshkentdagi PM2.5 yillik o‘rtachasi JSSTning 5 µg/m³ tavsiyasidan olti baravardan ortiq ekanligi qayd etilgan (World Bank, 2024; WHO, 2021). Bu hududiy ko‘rsatkich texnologik changni manbada nazorat qilishning ekologik ahamiyatini asoslaydi; alohida qurilma samaradorligini ifodalamaydi.

Tadqiqot maqsadi: Atmosfera havosini yengil va og'ir changlaridan tozalash va samaradorligi yuqori bo'lgan chang tozalash qurilmasi ishlab chiqish.

Ilmiy muammo va o‘rganilganlik darajasi

“Atmosfera havosini muhofaza qilish to‘g‘risida”gi 353-I-son Qonunning 24-moddasi tashlamalarning sifat va miqdoriy tarkibini aniqlash uchun namuna olish hamda o‘lchashni talab qiladi (27.12.1996; amaldagi tahrir). PF-81-son Farmonning 9-bandida chang-gaz tozalash uskunalarini o‘rnatish va modernizatsiya qilish ko‘zda tutilgan (31.05.2023). Shu bois modernizatsiya haqidagi qaror o‘lchov bilan asoslanishi lozim.

Z.Z. Uzakov va M.D. Jumayeva (2024) korxona chiqindilari tarkibi va miqdorini tahlil qilgan. E. Aylı va E. Kocak (2025) siklonlarning konstruktiv rivojlanishini umumlashtirgan. Birinchi ish mahalliy sanoat kontekstini, ikkinchisi qurilma tanlash yo‘nalishlarini beradi; ular muayyan mahalliy chang namunasini kompleks tavsiflashning o‘rnini bosmaydi.

Zarracha o‘lchami va zichligi inertsiya ajratilishiga, namlik hamda yopishuvchanlik esa filtrlash sharoitiga ta’sir qiladi (EPA, 2003a, 2003b). Ochiq masala — o‘rganilayotgan korxona changining xossalarini qurilma sinovi bilan yagona protokolda bog‘lash. “Yengil” va “og‘ir” chang atamalari o‘lcham, zichlik va namlik orqali aniqlashtiriladi. Tezisning vazifasi shu tavsiflash uchun tekshiriladigan metodik ketma-ketlikni asoslashdir.

Taklif etilayotgan metodika

Namuna olishda jarayon, olish nuqtasi, gaz sarfi, harorat va namuna saqlash sharoiti hujjatlashtiriladi. Filtrlanuvchi zarracha massasini aniqlashda EPA Method 5 ning izokinetik namuna olish va gravimetrik baholash prinsiplari metodologik tayanch sifatida ko‘rib chiqiladi. Korxonada metodni qo‘llash shartlari alohida tekshiriladi.

Mikroskopik tahlilda geometrik o‘lcham va zarracha shakli qayd etiladi. PM10 va PM2.5 fraksiyalarini ajratish uchun EPA Method 201A dagi aerodinamik mezonlar ko‘rib chiqiladi (EPA, 2020b). Mikroskopdagi geometrik o‘lcham avtomatik ravishda PM fraksiyasi deb olinmaydi. Fraksion ulushlar son bo‘yicha yoki massa bo‘yicha hisoblanganligi aniq ko‘rsatiladi.

Metodik tahlil natijalari va tekshirish mezonlari

Adabiyotlar sintezidan quyidagi metodik mezonlar ajratildi; yangi qurilmada tajriba o‘tkazilmadi.

Birinchidan, quruq massa, namlik va suv bilan kontaktdan keyingi massa alohida qayd etiladi. Kontakt davomiyligi, harorati va sirt suvini ajratish tartibi bir xil saqlanadi. Erish, yuvilib chiqish va sirtga yopishgan suv nazorat qilinadi; nam massa ortishi bevosita ichki suv yutish deb olinmaydi. Bu mualliflar taklif etayotgan tekshiruv rejasi bo‘lib, uning takrorlanuvchanligi tajribada baholanadi.

Ikkinchidan, zarracha materiali zichligi bilan uyma zichlik ajratib yoziladi. O‘lchash usuli namuna bilan muvofiqligi tekshirilgach tanlanadi. Fraksion tarkib, mikroskopik shakl va namlik natijalari bir xil namuna identifikatori bilan bog‘lanadi. Shu tartib sinovlar orasidagi chang farqini konstruktiv ta’sir bilan aralashtirish xavfini kamaytirishga xizmat qiladi.

Uchinchidan, EPA Method 201A suv tomchilari mavjud oqimga bevosita qo‘llanmaydi (EPA, 2020b). Shu sababli kondensatsiya va tomchi mavjudligi tekshiriladi. Kirish va chiqish konsentratsiyalari bir xil gaz hisoblash holatiga keltiriladi; sarflar farqlansa, C·Q massa oqimlari orqali baholanadi.

To‘rtinchidan, boshlang‘ich va o‘zgartirilgan ikki bosqichli chang tozalash qurilmalari taqqoslanadigan chang xossalari hamda teng sarfda sinovdan o‘tkaziladi. Fraksion ushlash, bosim farqi va energiya sarfi birgalikda o‘lchanadi. Takroriy o‘lchov, asbob kalibrlashi va bo‘sh namuna nazorati o‘lchov tarqoqligini baholashga xizmat qiladi (EPA, 2020a, 2020b).

Xulosa

1. Chang xossalarini kompleks tavsiflash konstruktiv ta’sirni ajratish uchun zarur.
2. Geometrik va aerodinamik o‘lcham, namlik va suv yutish mustaqil baholanadi.
3. Kutilayotgan natija — korxona changini tavsiflash protokoli va sinov chegaralarini aniqlash. Samaradorlik va iqtisodiy foyda tajribada tekshiriladi.

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