BINO VA INSHOOTLAR XAKIDA UMUMIY TUSHUNCHA

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Kirish. Kurilish amaliyotida ikki tushuncha, ya'ni "bino" xamda "inshoot" tushunchasi mavjud.

Jamiyatning moddiy xamda ma'naviy extiyojlarini kondirish uchun kishilar tomonidan bunyod etilgan kurilmalar inshoot deyiladi. Kishilarning biror faoliyatiga muljallangan va moslashtirilgan, ikki fazoga - bushlikka ega bulgan yer usti inshootlari bino deb ataladi.

Amaliy ish faoliyatida foydalaniladigan; binolarga alokasi bulmagan inshootlar injenerlik inshootlari deb ataladi. Bunday inshootlar (tugonlar, kupriklar, televizion minora, tunnellar, metro tuxtash joylari, dudburonlar, suv va don maxsulotlari saklanadigan katta idishlar va x.) fakat texnik vaziflarni bajarishga muljallangan buladi.

Binolar vazifasiga kura grujdan (turar-joy va jamoatchilik), sanoat va kishlok xujaligi binolari guruglariga ajratiladi. Grajdan binolariga kishilarning maishiy va jamoatchilik extiyojlariga muljallangan binolar kiradi. Bular turar-joy binolari (yashash uchun kurilgan uylar; yotokxonalar, mexmonxonalar va boshkalar) va jamoatchilik binolari (ma'muriy, ukuv, madaniy okartuv, savdo, kommunal xujalik, sport va boshka binolar) deyiladi.

Biror sanoat maxsulotini ishlab chikarishda mexnat jarayonini amalga oshirish uchun muljallangan va ichiga ishlab chikarish kurorlari joylashtirilgan binolar sanoat binolari deb ataladi (ustaxonalar, garajlar, elektrostansiyalar, omborlar, sex binolari), Kishlok xujaligi axtiyojlarini kondirish uchun foydalaniladigan binolar kishlok xujaligi binolari deb ataladi (molxona, parrandaxona, teplisalar, kishlok xujaligi maxsulotlari saklanadigan omborlar).

Yuqorida keltirilgan binolar tashki kurinishi va me'moriy-konstruktiv yechimlari bilan bir-biridan fark kiladi.

Binolarning ichki bushligini aloxida xonalarga ajratish mumkin (turar-joy xonasi, oshxona, sinflar, xizmat xonasi, sex va x.). Bir xil balandlik darajasida joylashgan xonalar kvavatlarni tashkil kiladi.

Uz navbatida kavatlararo yopmalar binoni balandligi buyicha kavatlarga ajratib turadi.

Xar kanday binoni bir-biri bilan boglik bulgan kism va elementlarga, ya'ni bir-birini tuldirib turuvchi va aniklab beruvchi uchta guruxga ajratish mumkin:

-xajmiy rejalashtirish elementlari, ya'ni bino xajmining yirik kismlari (kavat, aloxida xonalar va x.);

-konstruktiv elementlar, ya'ni bino tuzilishini aniklab beruvchi kismlar (poydevorlar, devorlar, kavatlararo yopmalar, tom va x.);

-kurilish buyumlari, ya'ni konstruktiv elementni tashkil etuvchi nisbatan kichik kismlar (gisht, beton, oyna, pulat armatura va x.).

Xar kanday bino kuyidagi asosiy talablarga javob berishi kerak:

- vazifasiga muvofikligi, ya'ni bino kaysi jarayonga (maksadga) muljallangan bulsa, u shu jarayon talabiga tulik javob berishi kerak (yashash uchun kulay, dam olishga moslashtirilgan, mexnat kilishga kulay va x.);

- texnik tomondan muvofikligi, ya'ni bino kishilarni tashki ta'sirlardan (past yoki yukori temperatura, yogingar chilik, shamol va b.) tula asrashi, mustaxkam va ustivor bulishi, ekspluatasiya sifatlarini uzok yil davomida saklashi lozim;

- bino kurinishi me'morchilik va badiylik talablariga mos xolda tanlanishi, uning tashki (ekstyer) va ichki (interyer) kurinishi chiroyli, shinam, atrof-muxit bilan uygunlashgan bulishi kerak;

- iktisodiy jixatdan kulayligi, ya'ni bino va inshoot kurilishida mexnat sarfini kamaytirish, kurilish materiallari xamda vaktni tejash kuzda tutiladi.

Binolar vazifasiga muvofikligiga kura ikki guruxga: asosiy va yordamchi vazifalarga muljallangan binolarga bulinadi. Masalan, maktab binosining asosiy vazifasi ukituvchilarni ukitishga muljallangan, shuning uchun xam bu bino asosan ukitish xonalaridan (ukuv sinfi, laboratoriyalar va x.) iborat bulishi kerak. Ammo bu binoda yordamchi vazifaga muljallangan xonalar ya'ni ovkatlanish xonasi ommaviy tadbirlar uchun muljallangan xonalar, maktab ukituvchilari va boshliklari xonalari xam mavjud bulishi kerak.

Binoda asosiy va yordamchi vazifaga muljallangan xonalarni bir-biri bilan tutashtiruvchi, kishilar xarakatini ta'minlaydigan joylar xam buladi. Bu joylar kommunikasiya xonalari deb ataladi. Bularga koridorlar (yulaklar), zinalar, daxlizlar va x. kiradi.

Binodagi xonalarning xammasida muljallangan vazifani bajarish uchun optimal shart-sharoit ya'ni muxit yaratilgan bulishi kerak. Muxit deganda juda kup omillar, ya'ni xonalarning shinamligi, asbob-uskunalarning kullay joylashganligi, xavo muxiti xolati (temperatura va namlik, xonadagi xavo almashinishi); tovush rejimi (eshitishni ta'minlash va shovkindan ximoya kilish); yoruglik rejimi; kishilarni evakuasiya kilish chogida xarakat kulayligi va xavfsizligini ta'minlash kabilar tushuniladi. Binoni loyixalashda bularning xammasini e'tiborga olish lozim.

Bu talablar binolarning xar bir turi va uning xonalari uchun "Kurilish meyerlari va koidalari" (KMK) asosida amalga oshiriladi. Binoning texnik muvofikligini butun binoga yoki

uning ayrim elementlariga ta’sir etayotgan xamma tashki kuchlar buyicha konstruksiyalarini xisoblash orkali aniklanadi. Bu ta’sirlar tashki kuch yoki muxit ta’siri kurinishida bulishi mumkin.

Tashki kuchlarga bino elementlari (kismlari)ning xususiy ogirligi (doimiy yuklar), uskunalar, kishilar, kor ogirligi, shamolning ta’sir kuchi (muvakkat yuklar), yer kimirlashi va uskunalarning tasodifiy buzilishi (avariyasi) natijasidagi ta’sirlar va b. kiradi.

Muxit ma’siriga esa temperaturaning ta’siri (konstruksiya chizikli ulchamlarining uzgarishiga olib keladi), atmosfera va tuprok namligi ta’siri (konstruksiya materiali xususiyatlarining uzgarishiga olib keladi), xavo okimi yunalishining ta’siri (xona ichidagi mikro iklimning uzgarishiga olib keladi); kuyosh nuri energiyasining ta’siri (konstruksiya materiali fizik-texnik xususiyatlarining birikmalar ta’siri) konstruksiyalarning yemirilishiga va buzilishiga olib keladi), biologik ta’sir (mikroorganizmlar va kurs-kumurskalar konstruksiyani yemiradi), bino ichidagi yoki tashkarisidagi shovkin ta’siridan xonaning normal akustik rejimini buzilishi kiradi.

Yukorida keltirilgan ta’sirlarni xisobga olgan xolda binolar mustaxkamlik, ustivorlik va pishiklik (uzok vakt buzilmaslik) talablarini kondirishi kerak.

Bino mustaxkamligi deganda uning tashki kuchlar ta’siridan uzok vakt buzilmasdan xamda ortikcha deformasiyaga uchramasdan uz vazifasini bajarib turishi tushuniladi.

Binoni tashki ta’sirdan uz muvozanatini saklab turishi binoning ustivorligi (turgunligi) deb ataladi.

Kurilish me’morlari va koidalariga (KMK) kura binolar uzok vakt uz vazifasini ado etishi buyicha 1U darajaga bulinadi: 1 - xizmat davri 100 yildan ortik; P - xizmat davri 50 yildan 100 yilgacha; Sh - xizmat davri 20 yildan 50 yilgacha va, 1U - xizmat davri 5 yildan 20 yilgacha muljallangan binolar.

Binolarga kuyilgan asosiy texnik talablardan yana biri binoning yongin xavfsizligidir.

Kurilishda ishlatiladigan materiallar va konstruksiyalar yonish darajasiga karab yonmaydigan, kiyin yonadigan va yonuvchan guruxlarga bulinadi.

Bino konstruksiyalari olovbardoshlik chegarasi bilan xam xarakterlanadi. Bu binoning olov ta’sirida uz mustaxkamligini, ustivorligini saklab tura olishi uchun ketgan vakt bilan yassi konstruksiya elementlari uchun esa ularda teshik-yoriklar paydo bulishi yoki konstruksiyaning olovga teskari yuzasidagi temperatura 140^0 S gacha kutarilishi uchun ketgan vakt bilan belgilanadi.

Bino va konstruksiyalarni olovbardoshligi jixatdan besh darajaga bulish mumkin. Eng katta olovbardoshlik 1 darajali binolarga, eng kichik olovbardoshlik esa U darajali binolarga tegishli buladi.

Olov bardoshligi 1,P va Sh darajali binolar tosh material yoki pishik gishtdan kurilgan, 1U darajali binolar esa sirti suvalgan yogochli, U darajalisi suvalmagan yogochli binolar xisoblanadi. Olovbardoshdigi 1 va P darajali bulgan binolar devori, tayanchlari, ora yoamalari, ichki tusik devorlari (parda devor) yonmaydigan bulishi kerak. Olovbardoshligi Sh darajali binolarda devorlari va tayanchlari yonmaydigan, ora yopmalari va ichki tusik devorlari esa kiyin yonuvchi buladi, Yogoch binolar 1U va U darajali olovbardoshdikka ega bulib, yongin xavfsizligi talablariga kura ular ikki kavatdan baland bulmasligi kerak.

Bino loyixasini yaratishda iktisodiy talablar bilan bir katorda xonalarning katta-kichikligi va shakli jixozlari axolining talab va extiyojlariga mos kelishi xam e'tiborga olinishi kerak.

Texnik talablar masalarini xal kilishdagi iktisodiy muvofiklik binoning mustaxkamligi, ustivorligi va uzokka chidamligi ta'minlanishibilan bir katorda 1 m^2 maydon satxi yoki 1 m^3 bino xajmining narxi belgilangan kiymat chegarasidan oshib ketmasligini nazarda tutadi.

Bino narxini tushirish, uni rasional rejalashtirish va yuza satxini, uy xajmin i xamda ichki va tashki pardoz ishlarini belgilashda extiyojdan ortikcha sarflarga yul kuymaslik xisobiga, bino turi va ekspluatasiya sharoitini xisobga olib eng kulay va optimal konstruksiyalarni tanlash, bino kurilishida fan va texnika yutuklarini xisobga olib zamonaviy usullarni kullash orkali amalga oshiriladi.

Binolar xalk xujaligi axamiyatiga molikligiga va boshka ekspluatasion sifatlariga kuyiladigan talablarga binoan turt klassga bulinadi. 1 klass binolarga - yuksak talablarni kanoatlantiradigan, 1U klass binolari esa eng oz talablarni kondiradigan binolar kiritiladi. Binolar 1 klassli bulishi uchun 1 darajali utga chidamli va uzok vakt uz vazifasini utaydigan bulishi, shu bilan birga, a'lo navli materiallardan kurilgan konstruksiyalari yetarligidan ortikrok mustaxkam bulishi, xonalar kam xam xamda yukori sifatli pardozlangan bulishi kerak. Yirik sanoat korxonalarining binolari, yukori ekspluatasion va me'morlik talablari kuyiladigan 9 kavatli va undan xam baland binolar 1 sinfga mansub xisoblanadi. Kichikrok korxona binolari, balandligi 9 kavatgacha bulgan turar-joy va jamoat binolari P klassga kiradi. Urtacha ekspluatasion va me'moriy talablar kuyiladigan, balandligi 5 vakatdan oshmaydigan turar-joy binolari Sh klassga mansubdir. Eng kam ekspluatasion va me'moriy talablar kuyiladigan muvakkat (vaktinchilik) imoratlar esa 1U klassga kiritiladi. Binoning klassini loyixa tuzishni topshiradigan tashkilot bulgilaydi.

Devor materialiga kura binolar tosh devorli yoki yogoch devorli bulishi mumkin. Kurinishiga va katta-kichik ligiga kura esa mayda elementlardan (gisht, sopol blok, mayda blok) Kurilgan va yirik elementlardan (yirik bloklar, panellar, xajmiy blok va xokazolardan) kurilgan

binolar bulishi mumkin.Kavatlari soniga kura binolar kam kavatli (1-2 kavatli), urtacha kavatli (3-5 kavatli), kup kavatli (6-10 kavatli), juda baland (11-16 kavatli) va osmonupar (kavatlar soni 16 dan xam kup) binolarga bulinadi. Joylashishiga karab bino kavatlari yerdan yukorida,sokol kismida, yertula kismida (podval) joylashgan va monsarddan iborat bulishi mumkin.

Kurilish texnologiyasiga kura binolar: tayyor beton konstruksiyalardan yigilgan binolar, zavodda tayyorlangan industrial konstruksiyalardan montaj kilingan binolar, devorlari gisht, mayda blok va shu kabi mayda elementlardan tiklangan binolar - turkumiga bulinadi.

Keng tarkalganligiga kura binolar:

- andoza loyixa asosida kuriladigan ommaviy binolar (turar-joy binolari, maktablar, maktabgacha muassasalar, poliklinikalar, kino-teatrlar va b.);

- aloxida loyixalar asosida kuriladigan nodir binolar (teatrlar, muzeylar, sport binolari, ma’muriy binolar va x.) kabi turlarga bulinishi mumkin.

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