ZILZILAGA CHIDAMLI QURILISHNING ASOSIY TAMOYILLARI.

Katta ilmiy xodim PhD Ayupov G‘ayratjon To‘xtasinovich, Dotsent Abobakirova Zebuniso Asrorovna, Magisrtant Abdumuxsinov Alimardon Abdumannon o‘g‘li
Farg‘ona Politexnika instituti
z.abobakirova@ferpi.uz),(ORCID 0000-0002-9552-897X), alixon19982407@gmail.com

Annatatsiya: Ushbu maqolda loyihalash jarayonining boshida bino va inshootlarning yangi konstruktiv sxemalari zilzilaga chidamli qurilish sohasida ixtisoslashgan ilmiy-tadqiqot va loyihalash tashkilotlari mutaxassislari tomonidan majburiy ekspert tomonidan ishlab chiqilgan ko’rstamalar va tajribalarni sohaga tadbiq etish haqida.

Kalit so‘z: Seysmik izolyatsiya, konstruktiv yechim, seysmik yuk, fazoviy ramalar, pasportlashtirish.

Abstract: In this article, at the beginning of the design process, new structural schemes of buildings and structures are used, developed by specialists from research and design organizations specializing in the field of earthquake-resistant construction.

Key words: Seismic isolation, constructive solution, seismic load, spatial frames, certification.

Seysmik izolyatsiya va seysmik yuklarni dinamik tartibga solishning boshqa tizimlaridan foydalanganda ma’lum bir tizimni tanlash, shuningdek hisoblash va loyihalash ixtisoslashtirilgan dizayn va ilmiy tashkilotlar ishtirokida amalga oshirilishi kerak. Zilzilalar va binolarga tutash tuproqlarning tebranishi paytida inshootlarning ishlashi to‘g‘risida ishonchli ma‘lumot olish uchun ommaviy qurilish binolarining o‘ziga xos asosiy turlari, tubdan yangi konstruktiv yechimlarga ega binolar, shuningdek, ayniqsa maxsus inshootlar loyihalarida muhandislik-seysmometrik xizmat stantsiyalarini joylashtirishni ta’minlash kerak[1-5].

Qurilish tugagandan so‘ng obyektlarni pasportlashtirish, shuningdek mavjud obyektlarni tekshirish va pasportlashtirish seysmik hududlarda foydalaniladigan sanoat va fuqarolik binolari (inshootlari) ning texnik holatini baholash va pasportlashtirish bo‘yicha amaldagi me’yoriy hujjatlarga muvofiq amalga oshirilishi kerak. Ko‘p qavatli karkazli binolarda gorizontal seysmik yukni sezadigan tizim qattiq ramka tugunlari bo‘lgan fazoviy rama bo‘lib xizmat qilishi mumkin; seysmik yukni idrok etishda ishtirok etadigan plomba bilan qattiq rama tugunlari bo‘lgan fazoviy rama; vertikal bog‘lanishlar, diafragma yoki qattiqlik yadrolari bo‘lgan rama; kesilmagan rama [6-17].

Katta panelli binolar uzellari va ko'ndalang yuk ko‘taruvchi devorlar bilan loyihalashtirilishi kerak. Transvers va bo‘ylama devorlar shiftlar va qoplamalar bilan birgalikda seysmik yuklarni sezadigan yagona fazoviy tizimni hosil qiladi. Rejadagi tashqi devorlarning proektsiyalari 3 m dan oshmasligi kerak, devor va zamin panellari, qoida tariqasida, xonaning kattaligi bilan ta’minlanishi kerak. Ko‘ndalang devorlarning keng qadamlari (4,2 m dan ortiq) bo‘lgan binolarda bir-biriga bog’langan ikkita elementdan pol panellariga ruxsat beriladi. Devor panellarini mustahkamlash fazoviy ramalar yoki mustahkamlovchi mashlar shaklida ikki tomonlama amalga oshirilishi kerak. Panelning har bir tekisligiga o‘rnatilgan vertikal va gorizontal armaturaning maydoni devorning tegishli qismining kamida 0,025% bo‘lishi kerak[10-17].

Hisoblangan seysmiklik 7 va 8 ball bilan tashqi tosh devorlar va ichki temir-beton yoki po‘lat ramalardan (ustunlardan) foydalanishga ruxsat beriladi. Bunday holda, toshli binolar uchun belgilangan talablar bajarilishi kerak. Bunday binolarning balandligi 7 m dan oshmasligi kerak. Monolit binolar, odatda, yuk ko'taruvchi (asosan og‘ir beton) yoki yuk ko‘tarmaydigan tashqi devorlari bo‘lgan o‘zaro faoliyat devor tizimi sifatida loyihalashtirilishi kerak.

Foydalanilgan adabiyotlar:

1. СНиП II-7-81* Строительство в сейсмических районах. Госстрой России. – М.: ГУП ЦПП, 2000. - 44 с., карты ОСР-97

2. СП 31-114-2004 Правила проектирования жилых и общественных зданий для строительства в сейсмических районах. Госстрой России. – М.:

ГУП ЦПП, 2005. - 50 с.

3. Umarov, Sh. A. (2021). Development of deformations in the reinforcement of beams with composite reinforcement. *Asian Journal of Multidimensional Research*, *10*(9), 511-517.

4. Akhrarovich, A. X., Mamajonovich, M. Y., & Abdugofurovich, U. S. (2021). Development Of Deformations In The Reinforcement Of Beams With Composite Reinforcement. *The American Journal Of Applied Sciences*, *3*(05), 196-202.

5. Mirzaraximov M. A. O., Davlyatov S. M. APPLICATION OF FILLED LIQUID GLASS IN THE TECHNOLOGY OF OBTAINING A HEAT RESISTANT MATERIAL //Scientific progress. – 2021. – Т. 2. – №. 8. – С. 4-7.

6. Egamberdiyev B. O. et al. A Practical Method For Calculating Cylindrical Shells //The American Journal of Engineering and Technology. – 2020. – Т. 2. – №. 09. – С. 149-158.

7. Davlyatov S. M., Kimsanov B. I. U. Prospects For Application Of Non-Metal Composite Valves As Working Without Stress In Compressed Elements //The American Journal of Interdisciplinary Innovations Research. – 2021. – Т. 3. – №. 09. – С. 16-23.

8. Davlyatov S. M., Makhsudov B. A. Technologies for producing high-strength gypsum from gypsum-containing wastes of sulfur production-flotation tailings //ACADEMICIA: An International Multidisciplinary Research Journal. – 2020. – Т. 10. – №. 10. – С. 724-728.

9. Ахмедов Ж. Д. Оптимизация преднапряженных перекрестных ферменных систем //Промислове будівництво та інженерні споруди. К.: ВАТ "Укрдніпроектстальконструкція ім. ВМ Шимановського. – 2010. – Т. 4.

10. Akhrarovich A. K., Muradovich D. S. Calculation of cylindrical shells of tower type, reinforced along the generatrix by circular panels //European science review. – 2016. – №. 3-4. – С. 283-286.

11. Тошпулатов, С. У., & Умаров, Ш. А. (2021). ИНСТРУМЕНТАЛЬНО-УЧЕБНО-ДИНАМИЧЕСКИЕ ХАРАКТЕРИСТИКИ СРЕДНЕЙ ШКОЛЫ И КОНСТРУКТИВНЫЕ РЕШЕНИЯ СРЕДНЕЙ ШКОЛЫ№ 2 Г. ФЕРГАНЫ. *Таълим ва Ривожланиш Таҳлили онлайн илмий журнали*, *1*(6), 10-15.

12. Умаров, Ш. А. (2021). Исследование Деформационного Состояния Композиционных Арматурных Балок. *Таълим ва Ривожланиш Таҳлили онлайн илмий журнали*, *1*(6), 60-64.

13. Goncharova N. I., Abobakirova Z. A. Reception mixed knitting with microadditive and gelpolimer the additive //Scientific-technical journal. – 2021. – Т. 4. – №. 2. – С. 87-91.

14. Goncharova N. I., Abobakirova Z. A., Kimsanov Z. Technological Features of Magnetic Activation of Cement Paste" Advanced Research in Science //Engineering and Technology. – 2019. – Т. 6. – №. 5. – С. 12.

15.Goncharova N. I., Abobakirova Z. A., Mukhamedzanov A. R. Capillary permeability of concrete in salt media in dry hot climate //AIP Conference Proceedings. – AIP Publishing LLC, 2020. – Т. 2281. – №. 1. – С. 020028.

16. Asrorovna A. Z. Effects Of A Dry Hot Climate And Salt Aggression On The Permeability Of Concrete //The American Journal of Engineering and Technology. – 2021. – Т. 3. – №. 06. – С. 6-10.

17. Abobakirova Z. A. Regulation Of The Resistance Of Cement Concrete With Polymer Additive And Activated Liquid Medium //The American Journal of Applied sciences. – 2021. – Т. 3. – №. 04. – С. 172-177.