

Documents

Sohu, S.^a, Kassim, T.R.B.M.^b, Khan, O.S.^c

Critical Risk Factors influencing Time Schedule of Residential Projects in Pakistan
(2024) *Engineering, Technology and Applied Science Research*, 14 (1), pp. 12636-12639.

DOI: 10.48084/etasr.6528

^a Quaid-E-Awam University of Engineering Science and Technology, Larkana Campus, Pakistan

^b Department of Civil Engineering, IIUM University, Malaysia

^c Civil and Architectural Engineering Department, University of Engineering and Technology Lahore, Pakistan

Abstract

Delays in residential construction projects are common issues in both developing and developed countries. This research aims to identify the key reasons behind these delays in Pakistan. When the projects run behind schedule, this can lead to problems such as exceeding the budget, reduced productivity at the construction site, and potentially lower quality work. The study involved a detailed survey using questionnaires that were addressed to industry professionals. Their responses were used to rank the critical factors causing delays. The most significant factors were found to be fluctuating material prices, financial challenges for contractors, underestimating project duration, poor site management, inexperienced contractors, ineffective project management, communication gaps among project stakeholders, shortage of skilled workers, changes in project design, unqualified contractors, and inadequate project planning. Identifying these critical factors through the Relative Importance Index (RII) method can help in addressing and preventing delays in Pakistan's construction projects, ensuring timely completion and better project outcomes in the future. © by the authors.

Author Keywords

construction delays; critical factors; Pakistan; survey; time overrun

References

- Akhund, M. A., Imad, H. U., Memon, N. A., Siddiqui, F., Khoso, A. R., Panhwar, A. A.
Contributing Factors of Time Overrun in Public Sector Construction Projects
(2018) *Engineering, Technology & Applied Science Research*, 8 (5), pp. 3369-3372.
Oct
- Mohammed, A. J.
Evaluation of Time Overruns and Time Management Techniques in Road Construction Projects in Erbil City
(2023) *Journal of Engineering and Sustainable Development*, 27 (4), pp. 499-510.
Jul
- Nadir, H., Ahmed, A.
Causes and Monitoring of Delays and Cost Overrun in Construction Projects in Pakistan
(2020) *International Journal of Engineering Inventions*, 9 (8), pp. 20-33.
Aug
- Abdallah, A. A., Shaawat, M. E., Almohassen, A. S.
Causes of miscommunication leading to project delays and low work quality in the construction industry of Saudi Arabia
(2024) *Ain Shams Engineering Journal*, 15 (3), p. 102447.
Mar. Art
- Gündüz, M., Nielsen, Y., Özdemir, M.
Quantification of Delay Factors Using the Relative Importance Index Method for Construction Projects in Turkey
(2013) *Journal of Management in Engineering*, 29 (2), pp. 133-139.
Apr

- Memon, A. H., Memon, A. Q., Khahro, S. H., Javed, Y.
Investigation of Project Delays: Towards a Sustainable Construction Industry
(2023) *Sustainability*, 15 (2), p. 1457.
Jan. Art
- El-Dash, K. M. M., Ramadan, O. M. O., Youssef, W. M. M. A.
Duration Prediction Models for Construction Projects in Middle East
(2019) *Engineering, Technology & Applied Science Research*, 9 (2), pp. 3924-3932.
Apr
- Venkateswaran, C. B., Murugasan, R.
Time Delay and Cost Overrun of Road over Bridge (ROB) Construction Projects in India
(2017) *Journal of Construction in Developing Countries*, 22, pp. 79-96.
Suppl. 1
- Chan, D. W. M., Kumaraswam, M. M.
Reasons for Delay in Civil Engineering Projects – the Case of Hong Kong
(1995) *HKIE Transactions*, 2 (3), pp. 1-8.
Jan
- Soomro, F. A., Memon, M. J., Chandio, A. F., Sohu, S., Soomro, R.
Causes of Time Overrun in Construction of Building Projects in Pakistan
(2019) *Engineering, Technology & Applied Science Research*, 9 (1), pp. 3762-3764.
Feb
- Baghdadi, A., Kishk, M.
Saudi Arabian Aviation Construction Projects: Identification of Risks and Their Consequences
(2015) *Procedia Engineering*, 123, pp. 32-40.
Jan
- Alajmi, A. M., Ahmed Memon, Z.
A Review on Significant Factors Causing Delays in Saudi Arabia Construction Projects
(2022) *Smart Cities*, 5 (4), pp. 1465-1487.
Dec
- Le-Hoai, L., Lee, Y. D., Lee, J. Y.
Delay and cost overruns in Vietnam large construction projects: A comparison with other selected countries
(2008) *KSCE Journal of Civil Engineering*, 12 (6), pp. 367-377.
Nov
- Sepasgozar, S. M. E., Razkenari, M. A., Barati, K.
The Importance of New Technology for Delay Mitigation in Construction Projects
(2015) *American Journal of Civil Engineering and Architecture*, 3 (1), pp. 15-20.
Jan
- Ogunlana, S. O., Promkuntong, K., Jearkijrm, V.
Construction delays in a fast-growing economy: Comparing Thailand with other economies
(1996) *International Journal of Project Management*, 14 (1), pp. 37-45.
Feb
- Frimpong, Y., Oluwoye, J., Crawford, L.
Causes of delay and cost overruns in construction of groundwater projects in a developing countries; Ghana as a case study
(2003) *International Journal of Project Management*, 21 (5), pp. 321-326.
Jul

- Assaf, S. A., Al-Khalil, M., Al-Hazmi, M.
Causes of Delay in Large Building Construction Projects
(1995) *Journal of Management in Engineering*, 11 (2), pp. 45-50.
Mar
- Odeyinka, H. A.
An evaluation of the use of insurance in managing construction risks
(2000) *Construction Management and Economics*, 18 (5), pp. 519-524.
Jul
- Frimpong, Y., Oluwoye, J.
Significant Factors Causing Delay and Cost Overruns in Construction of Groundwater Projects in Ghana
(2003) *Journal of Construction Research*, pp. 175-187.
04 02, Sep

Correspondence Address

Sohu S.; Quaid-E-Awam University of Engineering Science and Technology, Pakistan; email: sohoosamiullah@gmail.com

Publisher: Dr D. Pylarinos

ISSN: 22414487

Language of Original Document: English

Abbreviated Source Title: Eng. Technol. Appl. Sci. Res.

2-s2.0-85184871968

Document Type: Article

Publication Stage: Final

Source: Scopus

ELSEVIER

Copyright © 2024 Elsevier B.V. All rights reserved. Scopus® is a registered trademark of Elsevier B.V.

 RELX Group™