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| **No** | **Covariates** | **Explanation** | **Source** |
| **Time-variant** | | | |
| 1 | Population size | * Larger districts may exhibit higher economic output. * Source: Census or district-level demographic data. * Transformation: Use the log of population size if data is highly skewed. | INDO-DAPOER |
| 2 | Population growth rate | * Captures migration, fertility, or displacement patterns post-earthquake. | INDO-DAPOER (transform) |
| 3 | Urbanization rate | * Share of the population living in urban areas. * Reflects differences in economic structure and development. | INDO-DAPOER (SUSENAS) |
| 4 | Sectoral GDP Composition | * Share of GDP from agriculture, industry, and services. * Helps control for structural differences in economic activity. | INDO-DAPOER |
| 5 | Central Government Transfers (DAU, DAK, DBH) | * Controls for fiscal support from the central government, especially for post-disaster recovery. | INDO-DAPOER |
| **Time invariant** | | | |
| 1 | Baseline infrastructure conditions:  - Roads;  - Schools;  - Hospitals. |  | INDO-DAPOER |
| 2 |  |  |  |