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Data Article

# Dataset for material logistics on construction sites

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ABSTRACT

Data in this article describes logistics management on construction sites in Abuja, Nigeria. Data was elicited from 55 construction professionals comprising of Architects, Builders, Civil Engineers, Project Managers and Quantity Surveyors. The Data set in this study consists of responses on: factors affecting material purchase on construction sites, factors affecting accuracy of material delivery, challenges encountered during material delivery, benefits of material delivery on construction sites and methods of forecasting material demand on construction sites. This article provides insight into logistics management on construction sites in Nigeria and it can be a useful guide for similar research in other contexts.

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## Specifications table

| | |
|---|---|
| Subject area | *Construction* |
| More specific subject area | *Material Logistics* |
| Type of data | *Tables and Figures* |
| How data was acquired | *Field Survey* |

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| | |
|---|---|
| Data format | *Raw* |
| Experimental factors | *Random Sampling* |
| Experimental features | *Descriptive statistics* |
| Data source location | *Abuja, Nigeria* |
| Data accessibility | *Data is included* |

**Value of the data**

- The data provides insight into the significant factors affecting material purchase on construction sites
- From the data, factors affecting accuracy of material delivery on construction sites can be obtained
- The data presents critical factors to be considered in choosing a material handling equipment on construction sites.
- From the data, the challenges associated with material logistics on construction sites are identified.
- The data in this article can be modified for use in other context.

## 1. Data

Data for this article was solicited from construction professionals in Abuja, Nigeria.

Q3 Fig. 1 presents the mean values of the factors affecting material purchase on construction sites. The factors are: material quality (4.87), material price (4.71), volume of order (4.15), reputation of manufacturer (4.15), waiting time (3.85), competence of purchasing officer (3.76) and sales discount (3.53).

Fig. 2 highlights the mean of the factors affecting accuracy of material delivery on construction sites. These factors include: failure from supplier (3.67), order error (3.58), use of uncommon materials (3.51), altering work sequence (3.47) and payment delay (3.04).

**Fig. 1.** Factors affecting material purchase.

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