



INSTITUTE FOR LEAN CONSTRUCTION
EXCELLENCE (ILCE)

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What are wastages in the Construction Industry ?

Any and every process has inherent wastages – it could be BIG it could be SMALL.

Construction process is no exception.

Broad definition of wastages is “Anything beyond the absolute minimum”.

Be it in materials, time, efforts, etc.

The “**Absolute Minimum**” can be termed as basic contents of the process.

In this context even shuttering, supervision, can be waste since it is not adding to the basic contents of the work.

Shuttering, Supervision are necessary, hence we can term this as “**Contributory Waste**”.

Non contributory waste are those which is the “**Real Waste**” since it does not contribute to the process.

| | |
|------------|------------------|
| Productive | Non-contributory |
| | Contributory |

Exercise of lean construction is to convert contributory to productive (to the extent possible)

And eliminate (mitigate) non- contributory.

Generally Contributory and Non-Contributory are as much as 50% and hence need of a magnifying glass to look into.

Often Talked words – value adding and non-value adding.

| Traditional | Lean Construction |
|-------------------------|--------------------------|
| Non Value Adding 50% | Non Value Adding 30% |
| Value Adding 50% | Value Adding 70% |

Application of Lean Construction is to increase value adding activities and reduce non-value adding activities.

Examples of wastes (Non- Contributory) :

| | | |
|---|--|--|
| Excessive Supervision | Excessive Vigilance | Attitude of workers |
| Waiting time | Travel time (excessive) | Rework |
| Idle time | Stoppages | Stress due to non- feasibility of targets |
| Lack of resources | Waste of materials | Poor distribution of resources |
| Lack of drawing instructions | Unnecessary work | Information system – not necessary / unclear / defective / slow. |
| Unnecessary / excessive movement of people. | Unnecessary / excessive movement of materials. | Administration – Unnecessary requirements, Poor Planning, Lack of Control, Excessive red tape. |
| ADVERSARIAL REALTIONSHIP | LEGAL CASES | ARBITRATION CASES |

AND MANY MANY MORE.....

What is the road map for locating waste.

- 1) Brainstorming sessions with the players of the process.
- 2) Deep detail look at the process (value stream mapping).
- 3) Monitoring process at short intervals for squeezing out waste.
- 4) Pull process at short intervals (kaizen).
- 5) AND MANY MORE.....

WEAR WASTE GLASSES

How to remove waste – Application of Lean Construction - Next Newsletters