



**INSTITUTE FOR LEAN CONSTRUCTION EXCELLENCE (ILCE)**

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### **Educative Newsletter No.3**

Did you wear “Waste Glasses” (Educative Newsletter No. 2)

Did you identify any waste in any process in which you are associating?

Identifying waste is half the battle won for Lean Construction.

If you had not worn “Waste Glasses” please do so now.

ILCE would be delighted to have your report.

“All of us understand waste,

We speak about it continuously

We moan about it,

But

We walk past it” (quote from unknown resource)

No longer can we afford this “Chalta Hai”

Declare TOTAL WAR against WASTE

### **Where does waste lie in Construction?**

- (1) In almost all processes in site –  
Concept , Architectural Design, Structural Design....,Security at site,  
Mobilization of Staff, Machinery, Construction processes (Excavation,  
Shuttering, reinforcement , Concreting, Plumbing, Electrical, HVAC,  
Structural fabrication erection , Closure of accounts. Closure of stores,  
closure of works etc.)  
Maybe 1000 processes or even more.

- (2) Relationship Between Stakeholders of the Projects –  
Waste lies in adversarial relationship which drives up cost, time of delivery , rework (galore) litigation and arbitration etc.

### **Universal Truth**

Identifying waste in any process would never be a one time thinking.

Removing waste and trying to eliminate the same is a never ending process.

There is no end to reducing effort, time, space and cost and thus achieving the perfect product.

### **Inspiration for Lean**

Inspiration is from Toyota Production System which revolutionized the manufacturing Industry

Readers are advised to refer to any Standard book- “ Toyota Production System”

### **Toyota Production system**

- (1) Mura –Smooth Flow
- (2) Muri - Stress
- (3) Muda - Waste

**MURA** speaks of the smooth flow without any gaps/ interception in the manufacturing, from start to finish of the product

Lean Construction speaks of no gaps between different activities and between different trades. The bane of the construction Industry is lack of flow.

**MURI** speaks of no stress to the worker, who should be assigned only work he is capable of doing.

Lean Construction also says that work allocation should permit correct time and correct resources for the product.

Unrealistic target, particularly with incomplete resources only results in demoralizing atmosphere and driving down performance.

**MUDA** speaks of non value adding activities (Waste which all players should work their very best to avoid)

Examples of Muda are over production, waiting, transporting , inappropriate processing, unnecessary inventory, unnecessary/ excessive motion, defects.

“Construction abounds with such wastages “

Next Newsletter –

Ambience for Lean Construction

Readers kindly note

These Newsletters are not exhaustive – just indicative.

Any clarifications/queries - Please be free to contact.