

HE APPLICATION OF LEAN CONCEPTS TO MEET GBI STANDARD IN CONSTRUCTION PROJECT

ASEP MAULANA BIN MAMAN (PB12045)

Bachelor of Project Management with Honors

ulty Industrial Management, University Malaysia Pahang

ABSTRACT

Lean concept is one of old innovation that until now still practice in various industry to achieved the certain goal. Lean also used in construction industry to reduce waste but still has the quality needed. Lean has many theories that used in many industries like 5S and kaizen that assist industries in manage the resource with more effective and efficient. The lean used in construction project will able meet the criteria of Green Building Index (GBI) assessment. GBI is new rating tool in Malaysia to assessment the building whether the building is suitable to get status like silver, gold, and platinum. The significant of this study is to identify whether lean is implement in construction project and the impact of lean to the GBI assessment criteria. The respondent involve in this study are construction company G7 because they more active involve in many project and has more experience. Objective in this study is achieved after result indicate positive findings.

INTRODUCTION	RESULTS							
This study focus on the findings the	Based on Krejcie and Morgan, 1970 the is Population: 75 Sample size: 63							
implementation of lean in the	44							
construction project and their impact to	Response rate : $\frac{11}{63}$ X 100%Demographic Analysis for Section A= 69.84%Gender Male 77.27% 34							
GBI assessment criteria ➤ Respondent are G7 construction	WWWWWWWWWWWWW						77.27%	34
company registered with CIDB in	Pilot test	Court a shire A lashe		Age			56.82%	25
Kuantan, Pahang	Section	Cronbach's Alpha		Educa		U	68.18%	30
	Section B	.49	1 12				45.45%	20
OBJECTIVE/S	Section C	.51	1 10	Experi	ence 6	-10 Y	34.09%	15
 To identify the implementation of lean concept in the construction project. To determine the impact of lean concept to the Green Building Index 	Cronbach alpha test			Expert	ise (Other	36.36%	16
	Section	Cronbach's Alpha	lpha N of Items		f 6	6-15 Y	50.00%	22
	Section B	0.710	12	Compa	any			
(GBI) assessment criteria.	Section C	0.802	12					
METHODS	Mean analys	is summary						
Pilot test – using SPSS trial run to identify the potential mistake in	Energy Efficiency 4.30 EE: SC1							
questionnaire to improve it	Indoor Environmental Quality 3.48							
Demographic Analysis – using SPSS	Sustainable Site Planning & 4.14							
To find frequency and percentage and present using pie chart	Management Inno: S			Inno: SC12				
Reliability Analysis – using SPSS To find internal consistency using Cronbach's Alpha	Materials &	Resource	3.64	Section	Mean	Minimu		ximum
	Water Effic	iency	3.86	Section B	3.964	4 2.9	909	4.500
Mean Analysis – using SPSS To find the average of each statement	Innovation		4.50	Section C	3.986	5 2.8	818	4.523
Mean	IL				Mean			
SB12			2					
SB11								
SB10		SC1						
SB9			9					•
SB8 SB7		SC SC						
SB7 SB6								
SB5		SC SC						•
SB4		SC SC						-
SB3		SC	3					
SB2		SC	2				I	
SB1		SC	1					
	3 4	5 Jandar	0 of mean and	1 Incia forma	$\frac{2}{2}$	3	4	5
Index of mean analysis for section B					tion C			
A The chick inc. of this to be a line		JSIONS AND RECO						
 The objective of this study has been r The leap concept in construction will 		÷	e with certa	un statemer	IT			
 The lean concept in construction will Recommendation: 	oring numer	ous benefit						
A Need evaluation:								

Need explore more because Lean in construction still new and lot of potential where same like GBI.

Expand and find more respondent to better result