BORANG ERGS - P3(R)

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Code Project : ERGS/112012157602/USM/01/15

	KEMENTERIAN PENDIDIKAN MALAYSIA Lapora	FINAL RE DRATORY RESEARC an Akhir Skim Geran Penye Pindaan 1/	PORT H GRANT SCHE elidikan Eksplorator 2015	E <b>ME (ERGS)</b> i (ERGS) IPT			
Α	RESEARCH TITLE: The development of an algorithm and a model through image processing and remote sensing techniques for assessing environmental impacts of routine carbon footprint in Peninsular Malaysia						
	PHASE & YEAR: 1 / 2012						
	START DATE: 1 Ogos 2012 END DATE: 31 Julai 2014 EXTENSION PERIOD (DATE): RMC LEV KPM LEV	EL: 31 Julai 2015 EL: 31 Julai 2015	6 1 07				
	PROJECT LEADER: Professor Dr. Mohd. Zubir Bin Mat Jafri						
	PROJECT MEMBERS: 1. Assoc. Prof. Dr. Lim Hwee San   (including GRA) 2. En. Wong Chow Jeng   3. Assoc. Prof. Dr. Khiruddin Abdullah   4. En. Sim Chong Keat						
	4. En. Sim Chon	y neal					
PR	4. En. Sim Chon OJECT ACHIEVEMENT (Prestasi Projek)						
PR B	4. En. Sim Chong OJECT ACHIEVEMENT ( <i>Prestasi Projek</i> )	ACHIEVEMENT PERCE	NTAGE				
PR	4. En. Sim Chons COJECT ACHIEVEMENT ( <i>Prestasi Projek</i> ) Project progress according to milestones achieved up to this period	ACHIEVEMENT PERCE 0 - 50%	NTAGE 51 - 75%	76 - 100%			
PR	4. En. Sim Chons OJECT ACHIEVEMENT (Prestasi Projek) Project progress according to milestones achieved up to this period Percentage	ACHIEVEMENT PERCE	NTAGE 51 - 75%	<b>76 - 100%</b>			
PR	4. En. Sim Chons COJECT ACHIEVEMENT ( <i>Prestasi Projek</i> ) Project progress according to milestones achieved up to this period Percentage	ACHIEVEMENT PERCE 0 - 50% RESEARCH OUTPU	NTAGE 51 - 75% UT	76 - 100%			
PR	4. En. Sim Chons COJECT ACHIEVEMENT ( <i>Prestasi Projek</i> ) Project progress according to milestones achieved up to this period Percentage Number of articles/ manuscripts/ books	ACHIEVEMENT PERCE 0 - 50% RESEARCH OUTPU Refereed Journa	NTAGE 51 - 75% UT ai A	76 - 100% ✓			
PR	4. En. Sim Chons COJECT ACHIEVEMENT ( <i>Prestasi Projek</i> ) Project progress according to milestones achieved up to this period Percentage Number of articles/ manuscripts/ books ( <i>Please attach the First Page of Publication</i> )	ACHIEVEMENT PERCE 0 - 50% RESEARCH OUTPU Refereed Journa 3	NTAGE 51 - 75% UT al A	76 - 100% ✓			
PR	4. En. Sim Chonse COJECT ACHIEVEMENT (Prestasi Projek) Project progress according to milestones achieved up to this period Percentage Number of articles/ manuscripts/ books (Please attach the First Page of Publication) Conference Proceeding (Please attach the First Page of Publication)	ACHIEVEMENT PERCE 0 - 50% RESEARCH OUTPH Refereed Journa 3 International 12	NTAGE 51 - 75% UT al A	76 - 100% ✓ Ion-Refereed Publication National			

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		HUMAN CAPITAL DEVELOPMENT						
	Human Canital	Number				Others		
	Human Capital	On-going		Graduated		(please specify)		
	Citizen	Malaysian	Non Malaysian	Malaysian	Non Malaysian			
ł	No. PHD STUDENT	1		1	1			
	Student Fullname: IC / Passport No: Student ID:	Sim Chong Keat 830717075767 / P-ZD0001/13(R)		Dr. Tan Kok Chooi 860625386143/ P- ZM0016/08(R)	Dr. Khuram Ali KH525442/ P- ZD0028/10(R)			
	No. MASTER STUDENT							
	Student Fullname: IC / Passport No: Student ID:							
	No. UNDERGRADUATE			6		2 Industrial tran		
				1. Khor Wei Ying 910326025164 / 109233		Assistant 1. MUHAMMAD H BIN SHABUDIN 931003075393		
				2. Pang Siaw Kian 900425138544/ 109288		2. KHAIRUNNISA BINTI HANAFI ( 92100602597		
	Student Fullname: IC / Passport No:			3. Sylvester Engkana Anak Pillay 930202135765 /117099				
	Student ID:			4. Chew Boon Wei 920209075540/ 117032				
				5. Wong Chui Qeen 921222085270/ 117106				
				910506085033/11803	2			
	Total							
EX	PENDITURE (Perbelanjaan)	1. 1.						
с	Budget Approved (Peruntukan diluluskan): RM 87,000.00Amount Spent (Jumlah Perbelanjaan): RM 87,028.68							
	Balance (Baki) Percentage of Amount Spent (Peratusan Belanja)	:	<u>R<b>M – 28.68</b></u> 100.03 %					
AD (Ak	DITIONAL RESEARCH ACTIVI (tiviti Penyelidikan Sampingan ya	TIES THAT CON ing menyumbanç	ITRIBUTE TO kepada perr	WARDS DEVELOPI bangunan kemahirar	NG SOFT AND insaniah)	HARD SKILLS		
D	International							
	Activity		Date (Mon	h, Year)	0	rganizer		
	(e.g : Course/ Seminar/ Symp Conference/ Workshop/	g : Course/ Seminar/ Symposium/ <u>Conference</u> / Workshop/ Site Visit) SPIE Photonics Europe, 14 -17 April 2014, Munich Germany			PIE			

**3** 57 1.

	Activity	Date (Month Year)	Organizer			
	(e.g : Course/ Seminar/ Symposium/ Conference/ Workshop/ Site Visit)					
E	PROBLEMS / CONSTRAINTS IF ANY (M Budget constraint	lasalah/ Kekangan sekiranya ada)				
F	RECOMMENDATION (Cadangan Penami	bahbaikan)				
	Increase the budget allocation					
G	RESEARCH ABSTRACT Not More Tha	m 200 Words (Abstrak Penyelidika	an – Tidak Melebihi 200 patah perkata			
	prediction model for $CO_2$ emission is analyzed based on three main groups which is transportation, electric production and consumption as well as residential and industry. The prediction models was generated using data obtained from World Bank Open Data. Partial least square and best subset method were used to remo- irrelevant data and followed by multi-linear regression to produce the prediction models. From the results, high R-square (prediction) value was obtained and this imply that the models are reliable to predict the CC emission by using specific data. The results of the prediction model with the measured data showed a high correlation coefficient (adjusted R2=96.75%) with predicted R2=94.19%, indicating the model's accuracy efficiency. These results are encouraging and accurate and can be used in early warning of the population comply with air quality standards.					
	<b>Date : 1</b> 0/8/2015 <i>Tarikh</i>	Project Leade Tandatangan	er's Signature: Ketua Projek			
н	COMMENTS, IF ANY/ ENDORSEMENT BY RESEARCH MANAGEMENT CENTER (RMC) (Komen, sekiranya ada/ Pengesahan oleh Pusat Pengurusan Penyelidikan)					
	Makleur Bardahan Baki Gerzu Hegahif					
	Name: Nama:	Signature: Tandatanga	n: Julus			
	Nama:	Tandata	inga			

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