



FINAL REPORT OF EXTERNAL GRANT *Laporan Akhir Geran Agensi Luar*

Confidentiality of the report : Confidential Not Confidential
Kerahsian laporan : Sulit Tidak Sulit

A.	PARTICULARS OF RESEARCH / MAKLUMAT PENYELIDIKAN:														
(i)	Title of Research: <i>Tajuk Penyelidikan:</i>														
(ii)	Account Number: <i>Nombor Akaun:</i>														
(iii)	Penaja : <i>(Sponsor):</i>														
B.	PERSONAL PARTICULARS OF RESEARCHER / MAKLUMAT PENYELIDIK:														
(i)	Name of Research Leader: <i>Nama Ketua Penyelidik:</i>														
	Name of Co-Researcher <i>Nama Penyelidik Bersama:</i>														
(ii)	School/Institute/Centre/Unit : <i>Pusat Pengajian /Institut/Pusat/Unit :</i>														
C.	Research Platform (Please tick (/) the appropriate box): <i>Pelantar Penyelidikan (Sila tanda (/) kotak berkenaan):</i>														
	<table style="width: 100%; border: none;"> <tr> <td style="width: 5%; text-align: center;"><input type="checkbox"/></td> <td>A. Life Sciences <i>Sains Hayat</i></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>B. Fundamental <i>Fundamental</i></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>C. Engineering & Technology <i>Kejuruteraan & Teknologi</i></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>D. Social Transformation <i>Transformasi Sosial</i></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>E. Information & Communications Technology (ICT) <i>Teknologi Maklumat & Komunikasi</i></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>F. Clinical Sciences <i>Sains Klinikal</i></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>G. Biomedical & Health Sciences <i>Bioperubatan Sains Kesihatan</i></td> </tr> </table>	<input type="checkbox"/>	A. Life Sciences <i>Sains Hayat</i>	<input type="checkbox"/>	B. Fundamental <i>Fundamental</i>	<input type="checkbox"/>	C. Engineering & Technology <i>Kejuruteraan & Teknologi</i>	<input type="checkbox"/>	D. Social Transformation <i>Transformasi Sosial</i>	<input type="checkbox"/>	E. Information & Communications Technology (ICT) <i>Teknologi Maklumat & Komunikasi</i>	<input type="checkbox"/>	F. Clinical Sciences <i>Sains Klinikal</i>	<input type="checkbox"/>	G. Biomedical & Health Sciences <i>Bioperubatan Sains Kesihatan</i>
<input type="checkbox"/>	A. Life Sciences <i>Sains Hayat</i>														
<input type="checkbox"/>	B. Fundamental <i>Fundamental</i>														
<input type="checkbox"/>	C. Engineering & Technology <i>Kejuruteraan & Teknologi</i>														
<input type="checkbox"/>	D. Social Transformation <i>Transformasi Sosial</i>														
<input type="checkbox"/>	E. Information & Communications Technology (ICT) <i>Teknologi Maklumat & Komunikasi</i>														
<input type="checkbox"/>	F. Clinical Sciences <i>Sains Klinikal</i>														
<input type="checkbox"/>	G. Biomedical & Health Sciences <i>Bioperubatan Sains Kesihatan</i>														

<p>D.</p>	<p>Duration of this research : <i>Tempoh masa penyelidikan ini :</i></p> <p>*Duration : <i>Tempoh :</i></p> <p>From : 20__ To :20__ <i>Dari:</i> <i>Ke :</i></p>								
<p>E.</p>	<p>ABSTRACT OF RESEARCH (An abstract of between 100 and 200 words must be prepared in Bahasa Malaysia and in English. This abstract will be included in the Annual Report of the Research and Innovation Section at a later date as a means of presenting the project findings of the researcher/s to the University and the community at large)</p> <p>Abstrak Penyelidikan (Perlu disediakan di antara 100 - 200 perkataan di dalam Bahasa Malaysia dan juga Bahasa Inggeris. Abstrak ini akan dimuatkan dalam Laporan Tahunan Bahagian Penyelidikan & Inovasi sebagai satu cara untuk menyampaikan dapatan projek tuan/puan kepada pihak Universiti & masyarakat luar).</p>								
<p>F.</p>	<p>SUMMARY OF RESEARCH FINDINGS <i>Ringkasan dapatan Projek Penyelidikan</i></p>								
<p>G.</p>	<p>COMPREHENSIVE TECHNICAL REPORT <i>Laporan Teknikal Lengkap</i> Applicants are required to prepare a comprehensive technical report explaining the project. (This report must be attached separately) Sila sediakan laporan teknikal lengkap yang menerangkan keseluruhan projek ini. [Laporan ini mesti dikepilkan]</p> <p>List the key words that reflect your research: <i>Senaraikan kata kunci yang mencerminkan penyelidikan anda:</i></p> <table border="1" data-bbox="224 1415 1461 1673"> <thead> <tr> <th data-bbox="224 1415 841 1451">English</th> <th data-bbox="841 1415 1461 1451">Bahasa Malaysia</th> </tr> </thead> <tbody> <tr> <td data-bbox="224 1451 841 1522"></td> <td data-bbox="841 1451 1461 1522"></td> </tr> <tr> <td data-bbox="224 1522 841 1596"></td> <td data-bbox="841 1522 1461 1596"></td> </tr> <tr> <td data-bbox="224 1596 841 1673"></td> <td data-bbox="841 1596 1461 1673"></td> </tr> </tbody> </table>	English	Bahasa Malaysia						
English	Bahasa Malaysia								

H. a) Results/Benefits of this research

Hasil Penyelidikan

No. Bil:	Category/Number: Kategori/ Bilangan:	Promised	Achieved
1.	Research Publications (Specify target journals) <i>Penerbitan Penyelidikan (Nyatakan sasaran jurnal)</i>		
2.	Human Capital Development		
	a. Ph. D Students		
	b. Masters Students		
	c. Undergraduates (Final Year Project)		
	d. Research Officers		
	e. Research Assistants		
	f. Other: Please specify		
3.	Patents <i>Paten</i>		
4.	Specific / Potential Applications <i>Spesifik/Potensi aplikasi</i>		
5.	Networking & Linkages <i>Jaringan & Jalinan</i>		
6.	Possible External Research Grants to be Acquired <i>Jangkaan Geran Penyelidikan Luar Diperoleh</i>		
7.	Others <i>Lain-lain</i>		

- Kindly provide copies/evidence for Category 1 to 7.

b) Equipment used for this research.

Peralatan yang telah digunakan dalam penyelidikan ini.

Items Perkara	Approved Equipment	Approved Requested Equipment	Location
Specialized Equipment Peralatan khusus			
Facility Kemudahan			
Infrastructure Infrastruktur			

- Please attach appendix if necessary.

<p>I.</p>	<p>BUDGET / BAJET</p> <p>Total Approved Budget : RM Total Additional Budget : RM Grand Total of Approved Budget : RM</p> <p style="text-align: right;"><u>Yearly Budget Distributed</u> Year 1 : RM Year 2 : RM Year 3 : RM</p> <p style="text-align: right;"><u>Additional Budget Approved</u> Year 1 : RM Year 2 : RM Year 3 : RM</p> <p>Total Expenditure : RM Balance : RM</p> <ul style="list-style-type: none"> • Please attach final account statement from Bursary
<p>J.</p>	<p>RECOMMENDATIONS / CADANGAN (f appropriate, provide recommendations on the activities or other steps that may be taken to further develop, disseminate or to exploit commercially the results of the project Jika berkenaan, sila beri cadangan aktiviti atau langkah-langkah lain yang boleh diambil untuk membangun dan mengembangkan hasil projek ke peringkat seterusnya.)</p>

Signature of Researcher
Tandatangan Penyelidik

Date
Tarikh

K.	COMMENTS OF PTJ'S RESEARCH COMMITTEE <i>KOMEN JAWATANKUASA PENYELIDIKAN PERINGKAT PTJ</i>
	<p data-bbox="212 233 467 260">General Comments:</p> <p data-bbox="212 262 394 289"><i>Ulasan Umum:</i></p> <p data-bbox="212 338 1380 535">.....</p> <p data-bbox="212 1329 1076 1394">..... Signature and Stamp of Chairperson of PTJ's Evaluation Committee <i>Tandatangan dan Cop Pengerusi Jawatankuasa Penilaian PTJ</i></p> <p data-bbox="212 1484 672 1545">Date : <i>Tarikh</i> :</p> <p data-bbox="212 1575 792 1638">Signature and Stamp of Dean/ Director of PTJ <i>Tandatangan dan Cop Dekan/ Pengarah PTJ</i></p> <p data-bbox="212 1667 599 1728">Date : <i>Tarikh</i> :</p>