# INQUIRY INTO THE BUILDING THE EDUCATION REVOLUTION PROGRAM

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# Submission to the Legislative Council Parliament NSW inquiry into the

# "Building the Education Revolution" program

" This is the most successful capital procurement works ever undertaken in New South Wales history." Bob Leece, Coordinator General, NSW Nation Building and Jobs Plan Taskforce. April 2010

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#### **1.0 Introduction**

Much has been said about the implementation of the "Building the Education Revolution" (BER) and many claims made.

I welcome an opportunity to make this submission to the inquiry and give members the benefit of my analysis and research.

In November 2009, I resigned my post as P & C President at Holland Park State School in Brisbane, out of disgust at the travesty being perpetrated on schools by State and Federal Governments; their unwillingness to listen to warnings of potential rorts, price gouging and rip-offs was palpable. Letters and discussions with numerous politicians and bureaucrats have now become quite prophetic.

My interest in the BER was predicated on having been, for the preceding two years, instrumental in the conceptual development, design, documentation, funding, tendering, and project / site management of a Multi-Purpose Hall at HPSS in the Federal Electorate of Griffith. This project was funded by \$800,000 raised by the P & C and \$500,000 that were won from a competitive grant process called the Smart School Subsidy Scheme.

The majority of my time during 2008 was spent trying to restrict the outrageous variation claims from the appointed builder who was a preferred builder for Education Queensland (DET) and a pre-qualified contractor for the Department of Public Works (DPW).

I have over 20 years experience in and around the construction industry. I have liaised with numerous experts in the construction industry to help draw the conclusions contained herein. My experience at Holland Park State School caused me to be very concerned about the implementation of the BER across Australia. Traditionally state and federal government departments responsible for projects such as the BER are so removed from reality, the prospect of massive rorting and price gouging increases exponentially.

I have invested over 800 hours in the past 16 months sourcing and analysing publicly available documents, I have approached every level of government and the bureaucracy to get them to look at the evidence. These documents highlight systemic problems with the implementation of the BER. It appears that there are numerous relationships at play that are causing the waste of billions of taxpayer dollars. State and Federal Governments continue to claim this is not happening.

The evidence proves otherwise.

I have provided evidence to the Federal Senate Inquiry into "Primary Schools of the 21st Century", the Queensland Audit Office's inquiry in to the BER, PriceWaterhouseCoopers, independent auditor for Queensland and directly to Brad Orgill, Chairman of the BER Implementation Taskforce.

#### 2.0 Levels and Appropriateness of fees and charges

The Federal Government mandated that project management fees would be capped at 4%. State governments have accepted that Managing Contractors should be eligible for additional fees. Fees have been broken down into several areas. The definition of Project Management fees seems to have suffered scope creep similar to many projects being delivered under P21 of the BER.

#### **IPO Project Management**

When did it become appropriate for the State to charge an additional 1.3% fee on top of the existing 1.5% allocated by the Federal Government to administer the BER program. This is nothing more than double dipping. In addition, the 1.3% is based on the allocated funds made available for the project rather than the accepted practice of leving fees on the actual construction costs.

#### **Incentive Fees**

When did it become good practice to pay builders an incentive fee when the budgets for work are so lavish and compliance with timelines is not important? According to the Australian National Audit Office the implementation of the BER P21 program is woefully behind schedule. Generally speaking work being delivered by the Managing Contractor model in NSW is costing approximately twice that of projects being delivered under the Catholic and Independent school system (data attached).

#### Case Study 1

The Managing Contractor Reed Construction Group has charged at least 4% above the allocated funds to the school of \$850,000, the over budget amount is \$42,860.29. The total cost charged against the individual project is \$892,860.29 and is identical in every respect on all 53 examples of this in the New England and North Coast regions.

If one does a comparison against the cost of delivery of this project by the Catholic Sector the numbers are significantly more disturbing. Eungai Public School is an example of these projects. A small building of 207m2, the delivered project price by Reed Group was \$892,860.29 using construction cost data supplied to the Senate Inquiry by the Catholic Education Commission would indicate the CEC would expect to deliver the same project for \$560,406. Or a total of \$29,701,518 for all 53 projects compared to the IPO offices benchmark price of \$47,321,595.

If you compare both prices the difference is \$17,620,077. Even the difference between the actual price and the allocated funds leaves a \$2,271,595.37 funding shortfall. Yet the managing Contractor is to be paid the total incentive fee of \$314,128.88 across the 53 projects.

#### **Case Study 2**

The Managing Contractor Reed Construction Group has charged at least 4% above the allocated funds to the school of \$250,000, the over budget amount is \$9909.31. The total cost charged against the individual project is \$259,909.31 and is identical in every respect on all 91 examples of this in the New England and North Coast regions.

If one does a comparison against the cost of delivery of this project by the Catholic Sector the numbers are significantly more disturbing. Bald Blair Public School is an example of these projects. A small building of 72m2 plus a 21m2 verandah, the delivered project price by Reed Group was \$259,909.31 using construction cost data supplied to the Senate Inquiry by the Catholic Education Commission would indicate the CEC would expect to deliver the same project for \$188,679. Or a total of \$17,169,789 for all 91 projects compared to the IPO offices published price of \$23,651,747.

If you compare both prices the difference is \$6,481,958. Even the difference between the actual price and the allocated funds leaves a \$901,747.21 funding shortfall. Yet the managing Contractor is to be paid the total incentive fee of \$295,904.70 across the 91 projects.

Has there been a case where a Managing Contractor has not earned their incentive fee?

#### **Site Supervision**

Who has been doing the site supervision? How much time has been spent supervising sites? Who employed the site manger and how are those costs acquitted. Someone with appropriate power needs to request access to the Project Site Diaries. This document should detail who has been on site and how long for.

I have seen a case where a managing contractor has charged \$30,000,000 for 3 site mangers each with 3 additional people working for each of them. On that basis each project manger and his subordinates are costing the taxpayer \$1,250,000 each per year. I would be surprised if they were being paid more than \$150,000 per annum and that would be a very generous amount.

Investigations so far indentify that all these fees are being levied on the allocated funds to the School and not the construction costs. If we consider the allocated funds to the school were based on the schools enrolment. The allocation represents, effectively a bank account. It is normal in construction for professional fees to be based on the actual construction costs of a project not how much the client has on deposit at their local bank.

The standard data shown on the BER website calculates all fees including the design and price risk, IPO contingency, etc on the allocated funds. An example of the calculations is shown in Appendix C, please note that these figures have been removed from the IPO website.

#### Payment of Contigency / Design and Price Risk fees

Below are two items of estimated costs shown on the majority of Estimated Cost Sums for every school in NSW, as detailed on the IPO website. I am confused as to why a standard contingency sum is levied twice on the same project, although it is called something different. Design and Price risk plus Contingency can be higher than 12 percent.

• Contingency: This represents a 5 per cent allocation for unforseen risks which may arise whilst the project is being delivered. Unforseen risks can include latent ground conditions, the late discovery of asbestos, or poor weather conditions that affect construction timeframes. Setting a contingency is considered best practice within the construction industry

•Design and Price Risk Contingency: The is a contingency factored into the budget to ensure that costs can be covered, if once construction starts, new design elements are required or the design needs to be changed to suit newly-discovered site issues. If these risks don't eventuate and the contingency is not required, the money will be released to spend on the school's P21 project.

#### **3.0 Construction Costs**

Construction costs being levied across the public sector P21 projects in NSW are grossly inflated to the costs of projects being delivered under the Catholic and Independent implementation of P21 in NSW.

The NSW Catholic Education Commission has supplied to the Senate Inquiry for P21 implementation, detailed costs based on their deliverables to their school. I have attached an analysis of each type of building being delivered by the NSW Government (appendix A). I have measured the Building Area (BA as defined Rawlinson's) plus added in any Covered Outdoor Learning Area (COLA) attached to the same structure. I have then applied the appropriate rate per square metre for that type of construction as supplied by NSW CEC.

The significant differences indentified between the two systems on a project-by-project basis and the cumulative effects over the entire program are eye watering. Based only on the 17 project types, which we have the IPO Benchmark prices reveal a potential saving of **1.002 billion dollars** assuming the State P21 rollout was administered by the NSW CEC.

I have also applied costs for building materials sourced from the Rawlinson's Construction handbook to the publically available materials Analysis provided on the IPO's website. Total costs for materials across the entire public P21 program in NSW are \$524 million. Allocated funds to the program are \$2.985 billion

If we look at the cost of each of the BDR buildings being delivered by Reed Group in North Coast and New England regions of NSW. According to the Materials analysis done by the IPO office the expected cost of materials per building is \$43,216. Many bureaucrats and politicians in a pathetic attempt to justify the grossly overpriced buildings use the age old proposition of the "Apples to Apples" or "Apples to Oranges" comparison.

The CEC prices include all costs claimed as extras by Verity Firth and Julia Gillard. The only thing not allowed for is the re-housing of students on site during construction that interferes with the use existing classrooms. Anecdotally this has not been required in many instances, even if when it has, students have been re-housed with little interruption or cost.

When you are desperate to justify the unjustifiable you will claim anything that helps your position. For many decades public schools have looked on with envy at the facilities provided to students by the Catholic and Independent schools. The irony is, these facilities are generally of a higher standard than those delivered to public schools but at half the cost.

### 4.0 Effectiveness of Government Oversight

I am sure there is government oversight, it would appear its main function is protecting the jobs of senior bureaucrats and politicians. I have been able to undertake a full financial analysis of the entire P21 program, including a full materials analysis in the past three weeks. This analysis shows if the implementation of the NSW P21 program roll out were being administered by the NSW CEC there would be a projected saving to the taxpayer of over 1 Billion dollars. I think this sums up Government Oversight. I am sure that there is myriad procedures and protocols, its seems none are effective or designed to deliver the best outcome. Why do politicians and bureaucrats always default to covering there own butts first and not being advocates for the people they represent.

#### What does \$850,000 buy in the public sector as opposed to the private sector



Eungai Public School BER project delivered for \$892,860



Tweed Valley College BER project delivered for \$850,000

#### 5.0 Use of local human resources

Had a more decentralized approach been employed each school would have had greater input into their respective needs, In addition they would have had greater access to local trades people and improved the claimed primary focus of the program, creation of local economic stimulus. There are too many cases to list of contractors travelling vast distances to install infrastructure. A Dubbo contractor travelled to Toomelah on the Queensland border to erect a COLA, a short drive of some 500 kilometres, he was altimately to deliver over 100 COLA projects across NSW. There are numerous reports of Managing Contractors not using local resources, prefering to source from elsewhere.

#### 6.0 Acceptability of outcomes

Of the total number of projects slated for construction there are in effect a very small percentage that are completed. NSW State politicians and bureaucrats have said much about the comparative quality of the public P21 program compared to the Catholic and Independent P21 implementation.

Each and every Catholic and Independent school project is bespoke design, part of an overall planning strategy, and is managed on an individual basis. Earlier in this submission I have cited two examples of where a standard cookie cutter design is being allocated to 97 schools in two regions and in the other case a different design to 53 further schools in the same regions. 37% of schools in the New England and North Coast regions of NSW have received, or will receive, only two designs of buildings. (plans attached)

Wherever possible, all new buildings and refurbishments should incorporate sustainable building principles to help reduce any impact of building on the natural environment. Sustainable buildings will be designed to maximise energy efficiency, including insulation, energy efficient solar hot water (where appropriate), energy efficient lighting, energy efficient glazing, energy efficient heating and cooling, and a water tank. This will apply unless an exemption is given by the Commonwealth to take account of particular regional climate requirements.

The "cookie cutter" projects detailed on the OPI website do not appear to implement many environmentally sustainable designs. They are not innovative in any respect and are fundamentally utilitarian in design. I see no signs of passive cooling or heating. Only basic eco technologies have been implemented.

"Many schools are being provided unflued gas heaters. The heaters emit poisonous gases including nitrogen dioxide, carbon dioxide, formaldehyde and carbon monoxide, and tests by the Asthma Foundation led to calls for their removal. The state government has consistently denied the heaters pose a risk to children despite asthma rates 40 per cent higher in cooler areas where they are in use more often. Unflued heaters have been taken out of schools in all other states (some remain in Tasmania) and have been replaced in private schools in NSW on the advice of the Department of Health". Source Heath Aston Sydney Morning Herald June 6th 2010

#### 7.0 Related matters

#### Transparency

The NSW Government touts that it is completely transparent in respect of the implementation of the P21 program. Whilst on the face of it this may appear factual. It is in fact far from the truth. Whilst the IPO office website details basic information like each school, project type ie, classroom, hall, COLA etc, it also shows an estimated cost breakdown. The later of which seem to be progressively removed from the website.

Things not detailed are school enrolment, which would enable a cross reference of allocated funding to actual enrolment. The region of the school is not identified nor is the managing contractor. The lack of this information makes it extremely difficult to undertake decent analysis on a systemic basis.

I have highlighted earlier in this submission where single managing contractors have received large volumes of schools that are being treated as a consolidated project. I have undertaken a detailed analysis of data available in Queensland that has highlighted allocations of funds determined by enrolments that are questionable on a variety of fronts. This analysis cannot be done in NSW because the data is not accessible. By using the Managing Contractor model additional fees have been necessary. Under this model BER projects are deemed to be Major projects attracting higher rates of pay for union labour as well as additional union and compliance fees.

Has the NSW Government produced a copy of the tender documents and submissions from the Managing Contractors? In Queensland there have been serious questions raised as to whether a cartel had been created by these companies who ultimately became the anointed Managing Contractors. Was any third party involved in the negotiations on behalf of the Managing Contractors? The quantum of dollars involved is seriously large refer to Appendix D.

The Australian Competition & Consumer Commission published a document in April 2009, as the BER was ramping up, specifically as a guide for Government procrement officers. It was called "Cartels - Deterence and detection. What is a cartel? A cartel exists when businesses, instead of competing, agree to act together in a way that defeats competition. This is designed to drive up the profits of cartel members while maintaining the illusion of competition. Has this been allowed to happen under the NSW Governments implementation of P21 BER?

#### 8.0 Conclusion

Contingency amounts are being treated as if they are line items on an invoice, evidence from the NSW experience shows that in many cases the contingency sum is ultimately payable to the builder without any evidence of its expenditure. Contingency amounts are actually provisional sums for budgeting purposes. Contingencies are monies set aside for unforeseen circumstances should they arise on the project. The 8% figure allowable by the Federal Government totals \$1.296 billion across the entire program. Rigorous questioning and proof should be required before any of these amounts are paid. In many cases contingencies on NSW projects are in excess of 12%. There are hundreds of examples of buildings supplied pre BER now **costing double** under the BER.

The issues raised highlight systemic failings within NSW DET and IPO, The use of inflated benchmark pricing is a means of hiding the true comparison of what is being paid on projects and what they should actually cost. The State Government sdo not use industry standard pricing benchmarks but this they have created themselves over many decades. If they were to use more mainstream costings they would immediately save inordinate amounts of taxpayer dollars. I have numerous examples of specific overcharging, too many to form part of this submission. I am happy to provide these should they be useful.

In this submission I have tried to concentrate on more systemic issues, not individual projects of which there are many, facing the implementation of the BER P21. Federal and State governments have successfully created cultures of fear within the ranks of their staff. Very few, if any, are willing to put their heads above the parapet. Should they do so, they would likely loose there jobs.

The figures from CEC and Rawlinson's substatiate the questions being asked about delivery of value for money. Figures contained in this document indicate that if the P21 program were being implemented by the CEC a billion dollars could be saved.

I do not believe that either the State or the Managing Contractors have instituted covert processes to diminish the value returned to the taxpayers. Together they have collectively delivered some of the largest infrastructure projects in this nations history. Tunnels, rail, ports, roads, hospitals and numerous other major projects, the BER must be the first time projects have been relatively simple and the majority of the population have their own benchmarks for determining value for money.

How can the government continue to obfuscate and not immediately investigate. Conservatively I would expect even at this stage of the hundreds of millions of dollars could be saved from the program by having true independent analysis of the BER program. This money would be reinvested in respective schools to add better and more resources. I have never in my lifetime seen so many snouts in the trough.

Only last week I had occasion to be asked to look at figures relating to work done at Canley ValePublic School. With no more than 15 minutes one could immediately indentify massive overcharging. An inexplicable amount of \$196,144 plus plus for a passenger lift that does not exist. I am sure, someone will be able to provide a tangible excuse. Painting costs indicate an expensive trompe l'oeil (trick of the eye) pieces have been contracted.

The fact that the funds are supplied by the government seems to abrogate peoples responsibility to act ethically and behave as if they were spending their own money. Any honest builder/project manger could go to any project being managed by the IPO office and make significant savings. Unfortunately this is not an outcome the government welcomes. The economic stimulus could be multiplied if real value for money were being delivered to schools and their communities.

Unfortunately a document such as this does not do the evidence justice. There are holes in the NSW Governments delivery of the BER P21 that you could drive a road train through it at high speed.

Having read this submission please bear in mind,

" This is the most successful capital procurement works ever undertaken in New South Wales history."

Bob Leece, Coordinator General, NSW Nation Building and Jobs Taskforce. April 2010

Should it be useful, I would happily make myself available to help with any future analysis and investigation.

#### Comparison of CEC costs to IPO Costs P21 NSW page 1

Appendix A

Metre NSW IPO	98	33.960	30.82	10 33 80 76	31
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# Comparison of CEC costs to IPO Costs P21 NSW page 2

Appendix A

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Storage	21	52		\$ 122,3	51 \$	2,569,367	\$ 309,544	\$ 344,031	\$ 2,35	3 \$ 5,952	.77
Toilate	_										
3 Core Toilet Facility Option A	9	44		\$ 187,6	95 \$	1,126,171	Not published	Not published	\$ 4,26	6 N/A	
7 Core Toilet Facility Option B	24	96		\$ 409,5	7 \$	9,828,403	Not published	Not published	\$ 4,26	6 N/A	
14 Core Toilet Facility Option D	7	122		\$ 520,4;	8 8	3,642,993	Not published	Not published	\$ 4,26	6 N/A	
Toilet Upgrade	∞	0		\$ 260,2	4 \$	2,081,710	Not published	Not published			
Outdoor Learning Area											
Outdoor Learning Space [OLS]	21	0	76	\$ 55.7	31 \$	1.170.985	\$ 238.111	\$ 264.358	\$ 73	4 \$ 3.133	.04
3 Core COLA (45 m2)	15	0	45	\$ 33,0	2 \$	495,248	\$ 446,458	\$ 496,198	\$ 73	4 \$ 9,921	.29
14 Core COLA (150 m2)	39	0	150	\$ 110,0	5 \$	4,292,145	Not published	Not published	\$ 73	4 N/A	
21 Core COLA (210 m2)	497	0	210	\$ 154,0	.7 \$	76,576,269	Not published	Not published	\$ 73	4 N/A	
BER Design Range [BDR]	_										
Homebase (72 m2)	68	72	21	\$ 190,01	\$ 0	12,925,420	Not published	\$ 259,909	\$ 2,04	4 \$ 2,794	.72
Library (72 m2)	140	72	21	\$ 190,08	\$ 0	26,611,158	Not published	\$ 259,909	\$ 2,04	4 \$ 2,794	.72
Multipurpose Space (72 m2)	37	72	21	\$ 190,08	\$	7,032,949	Not published	\$ 259,909	\$ 2,04	4 \$ 2,794	.72
Total for BER in NSW based on Industry Standar	ds 4,076		~~~		\$1,9	82,841,426					
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## Costs analysis proposed project Hastings Public School

Appendix A

COLA - New Construction	ECS Stage (14/01/2010)	Percentage	Percentage
	200 0luge (14/01/2010)	of project	of Allocated
		of project	Funds
Natural Substation Allowanco	N/A		
Managing Contractor's Incentive Fee	\$12 708 03	1 25%	1 23%
Managing Contractor's Project Management Cost	\$12,700.95	2 7/0/	2 69%
Managing contractors ribject management cost	φ30,120.73	0.7470 Ν/Δ	5.00 /0
Design documentation field data site management	¢111 076 <i>1</i> 7	10 90%	10 72%
Proliminariaa	¢107.005.00	10.53%	10.7270
Cubatruatura	¢107,000.00	1 650/	1 620/
Superetructure	\$10,009.00	1.03 //	1.03 /0
Site Worke	\$61 502 00	6 0.4%	4J.40 /0
Site Convision	\$57,012.00	5 690/	5.50%
Design and price rick	\$37,913.00	J.00%	7.440/
IPO Project Management Cost (1, 20())	\$77,024.00	7.33%	1.00%
IPO Project Management Cost (1.3%)	\$13,466.70	1.32%	1.30%
Contingency (5%)	\$51,795.00	5.08%	5.00%
		100.00%	98.42%
Total for COLA project cost	\$1 019 532 89	34 53%	Overall
	ψ1,010,002.00	04.0070	combined pro
			combined pre
		Percentage	Percentage
Classroom - New Construction	ECS Stage (14/01/2010)	of project	of Allocated
			Funds
Natwork Substation Allowance	NI/A		
Managing Contractor's Incentive Fee	\$24 094 97	1 25%	1 23%
Managing Contractor's Project Management Cost	\$72 28/ 00	3 74%	3.68%
Madular Building Cost	Ν/Λ	0.7470 Ν/Δ	5.00 /0
Design documentation field data site management	¢215 201 75	11 12%	10.06%
Proliminarios	¢215,201.75	10.66%	10.30%
Substructure	¢103 878 00	5 27%	5 20%
Superetructure	¢026 222 00	17 02%	17 16%
Supersu ucture	\$920,222.00	47.92%	47.10%
Site Convises	\$30,270.00	2.91%	2.01%
Sile Services	\$39,201.00	3.00%	3.01%
Design drup procentisk	\$140,030.00 \$25,522.20	1.00%	1 200/
n o mojeci ivialiagement cost (1.3%) Contingency (5%)	⊋∠ാ,ാാാ.ാ∪ \$98 205 00	1.32% 5.08%	1.30% 5.00%
	ψ30,200.00	0.0070	0.007
		100.00%	98.419
Total for Classroom project cost	\$1,932,948.92	65.47%	Overall
			combined pro
Total for Hastings Public School	\$2,952,481.81		
All Figures are GST exclusive			
IPO Project Management Cost (1.3%)	\$39,000.00	1.32%	
Contingency (5%)	\$150,000.00	5.08%	
Design & Price Risk	\$223,054.00	7.55%	
		40.0.00	
Total contingency		12.64%	1
iour contingency		\$979 AF 4 AA	

Appendix C

#### Home Base Classroom as supplied to 53 schools by Reed Group



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## Home Base Classroom as supplied to 53 schools by Reed Group

Appendix C



#### 53 Schools who received a Home Base building by Reed Group

Appendix C

**Barrington Public School Beechwood Public School Bexhill Public School** Blakebrook Public School **Bonville Public School Booral Public School** Bowraville Central School Burringbar Public School Caniaba Public School Chatsworth Island Public School Coffee Camp Public School Coopernook Public School **Coorabell Public School** Copmanhurst Public School Coramba Public School Corindi Public School **Coutts Crossing Public School** Crystal Creek Public School **Curlewis Public School Dungay Public School Durrumbul Public School** Eungai Public School Fingal Head Public School Glen Innes West Infants School Goonengerry Public School Green Hill Public School Harrington Public School

Karangi Public School Lawrence Public School Leeville Public School Main Arm Upper Public School Modanville Public School Nana Glen Public School Telegraph Point Public School **Repton Public School** Rosebank Public School Rous Public School Scotts Head Public School Smithtown Public School Stokers Siding Public School Stroud Public School Tabulam Public School Teven-Tintenbar Public School The Pocket Public School **Timbumburi Public School** Tintinhull Public School Tregeagle Public School Tyalgum Public School Ulmarra Public School Willawarrin Public School Willow Tree Public School Wilsons Creek Public School Wooli Public School

#### **BDR Home Base as supplied to 91 schools by Reed Group**

Appendix C



#### 91 Schools who received an BDR by Reed Group

schools in cyan costings removed from website

Appendix C

Bald Blair Public School Baryulgil Public School Bellata Public School Bellimbopinni Public School Bendemeer Public School Blackville Public School Bobin Public School Broadwater Public School Bullarah Public School Bullarah Public School Burren Junction Public School Byabarra Public School Cabbage Tree Island Public School

**Carroll Public School** Chandler Public School Chillingham Public School Collarenebri Central School **Collins Creek Public School** Coolongolook Public School Crabbes Creek Public School Croppa Creek Public School Crowdy Head Public School Currabubula Public School Delungra Public School Drake Public School Dundurrabin Public School Dungowan Public School Duranbah Public School Duri Public School Elands Public School Ellangowan Public School **Emmaville Central School** Fairfax Public School Fernleigh Public School Gilgai Public School **Gladstone Public School** Gravesend Public School Gum Flat Public School Harwood Island Public School Hernani Public School Herons Creek Public School Huntingdon Public School Jiggi Public School Johns River Public School

Kellys Plains Public School Kentucky Public School Kingstown Public School Larnook Public School Long Flat Public School Lowanna Public School Mallawa Public School Manifold Public School Medlow Public School Millbank Public School Mingoola Public School Mitchells Island Public School Moonbi Public School Moorland Public School Mummulgum Public School Mungindi Central School Murwillumbah South Infants School Niangala Public School Nowendoc Public School Nundle Public School Nymboida Public School Old Bonalbo Public School Orara Upper Public School Pilliga Public School Premer Public School **Red Range Public School** Rocky River Public School Rukenvale Public School Somerton Public School Spring Ridge Public School Stratford Public School Stratheden Public School Stroud Road Public School The Risk Public School **Ulong Public School** Upper Coopers Creek Public School Upper Lansdowne Public School **Urbenville Public School** Whian Whian Public School Wiangaree Public School Woolbrook Public School Woolomin Public School Wyrallah Public School Wytaliba Public School Yarrowitch Public School

I

		_			_			_	_		_
	Single Doorsets	No.		\$ 615.00		686	\$ 4,305.00		280	\$ 1,230	6,501
	Mat. Qty					3			0 2		
	Windows	<sup>2</sup> ۳		\$ 505.0I		3,77	S 17,675.00		49, L	\$ 5,05C	28,038
	Mat. Qty					35			10		
	Sprung Timber Flooring	B <sup>2</sup>	1.1	\$ 170.00		0	s.		0		0
	Mat. Qtv			4		980	4		862	94	
	Light St Framing	°E	1.1	<b>\$</b>		1 25,	\$ 12,387.		3 15,	\$ 5,2	59,523
	Mat. Qty					5 24			1 10		
	Structural Stee	tonne	1.1	\$ 1,720.00		76/	s		53	\$	1,296
	of			8		902	8		710	75	
	Metal Rc Sheeting	°E	1.1	\$ 45.		24,9	\$ 10,395.0		17.	\$ 5,1	58,182
	Mat. Qty					231			115		
ALYSIS	Concrete Slab	m²	1.1	\$ 148.00		0	s		Ū	- \$	0
AL AN	Mat. Qty					0		_	0		
ER MATERI/	Common Bricks	Oty in Thousand	1.1	\$ 466.00		0			0		0
B	Mat. Qty					0			0		
	Face Bricks	Oty in Thousand	1.1	\$ 665.0							0
	Mat. Qty					0			0		
	Value per Building type	s				34,251,294			20,334,720		54,586,014
	Value per Building	s				349,503			145,248		
	COLA B91A	m²	-	\$ 900		0			0		
	Building Area	a²	-	\$ 1,513		231			%		
	Total Qty					98			140		
	s punoع								F		1
	182 Bound			-	 	86			129		227
	t bnuoß				 						
	Building Type	Unit	Wastage and Contingencies for Misc. Bldgs	Rate per Rawlinson's April 2010	MDR Buildings	2 Home Base Unit [MDR]	Cost of materials per building	BER Design Range [BDR]	Library, Hall, Classroom (72 m2)	Cost of materials per building	Total for Material Quantity
					 _						

						BER	MATI	ERIAL ANAI	-YSIS								
Building Type	Mat. Qty	Double Doorsets	Mat. Qty	Colorbond Cladding (wall & CF)	Mat. Qty	Roof Insulation	Mat. Qty	Wall Insulation	Mat. Qty	Ceiling Insulation	Mat. Qty	Plasterb'd Lining	Mat. Qty	Fibre Cement Lining	Mat. Qty	Roof Ventilators	Total Materials cost per individual project
Unit Western and Continenation for Miss. Bidden		.o <mark>x</mark>		°E 3		E E		°E .		°E ,		°E .		т, т	;	No.	
wastage and contingencies for Misc. Drugs Rate per Rawlinson's April 2010		\$ 615.00		s 44.70		S 6.80		1.1 \$ 12.40		S 12.40		S 29.90	Ċ	S 35.50		\$ 195.00	
											·				:		
MDR Buildings															}		
2 Home Base Unit [MDR]	0	0	53	5,713	0	0	241	25,980	186	20,051	510	54,978	60	6,468	4	392	Total volume of materials
Cost of materials per building		s		\$ 2,369.10		s		\$ 2,988.40		\$ 2,306.40		\$ 15,249.00		\$ 2,130.00		5 780.00	\$ 70,585.30
BER Design Range [BDR]																	
Library, Hall, Classroom (72 m2)	0	0	46	7,084	0	0	103	15,862	75	11,550	204	31,416	35	5,390	0	0	Total volume of materials
Cost of materials per building		s		\$ 2,056		·		\$ 1,277		\$ 930		\$ 6,100		\$ 1,243			\$ 28,354.70

# **Materials Analysis MDR/BDR projects**

Craig Mayne June 2010

#### **Overall allocations of work to Managing Contractors**

Appendix E

