



اُنْبُوْءُ سَيِّدِيْ تِيْكَوْ لُوْ يِيْ مَارَا  
UNIVERSITI  
TEKNOLOGI  
MARA

**DEPARTMENT OF BUILDING**  
**FACULTY ARCHITECTURE, PLANNING AND SURVEYING**  
**UNIVERSITI TEKNOLOGI MARA**  
**(PERAK)**

**SEPTEMBER 2015**

It is recommended that the report of this practical training provided

**By**

**Amalina Aziema Binti Ahmad Azam**

**2013686062**

**Progress Claim**

Accepted in partial fulfillment of requirement has for obtaining Diploma in Building.

Report Supervisor : Sr. Df./Hayro'man Ahmad

Practical Training Coordinator : Puan Noor Rizallinda binti Ishak

Programme Chairman : Dr. Mohd Rofdzi Bin Abdullah

**DEPARTMENT OF BUILDING**  
**FACULTY OF ARCHITECTURE , PLANNING AND SURVEYING**  
**UNIVERSITI TEKNOLOGI MARA**  
**(PERAK)**

**SEPTEMBER 2015**

**STUDENT DECLARATION**

I hereby declare that this report is my own work, except from extract and summaries for which the original references stated herein, prepared during a practical training session that I underwent at Bluebros E&C Sdn. Bhd. for duration of 5 months starting from 25 May and ended 9 October 2015. It is submitted as one of the prerequisite requirements of DBN307 and accepted as a partial fulfilment of the requirements for obtaining the Diploma in Buiding.

Name : Amalina Aziema Binti Ahmad Azam

UiTM ID No : 2013686062

Date : 9 October 2015

## ACKNOWLEDGEMENT

Alhamdulillah, praise to Allah, the Most Merciful, the Most Graceful.

I would like to extend my heartfelt gratitude for the guidance, advice and help rendered throughout the period of training by the following group of amazing individuals. First and foremost, I would like to thank Mr Lam Kong Chin for the opportunity given to conduct my industrial training in his esteemed company. His team of professionals comprising of Chua Chee Siang, Nur Fareza M Salleh, Khairul, Anas and Ragupathy, have enabled me to learn and develop my understanding, knowledge and feel of real time projects, and the theory involved in analysis of structures, building and civil works. They are also responsible towards streamlining and assessing my industrial training. Also to the site personnel in Genting Mall site, Mr Tong Kok Yih, En Ifzan and to all my internship friends incharged at the site who have extended their cooperation and help to further enhance my ability in understanding the procedures in construction and site administration, tests procedures, site safety and best practices in the industry. It is an honour for me to be given the opportunity to work with all of you.

I would also like to thank all the UiTM lecturers that have taught and nurtured me in becoming a better student and person. I would also like to extend my deepest appreciation to the lecturers who are directly involved during my industrial training stint. To Puan Wan Nordiana binti Wan Ali, Academic Advisor, Sr. Dr. Hayroman Ahmad, Supervising Lecturer, Encik Dzulkarnaen, Visiting Lecturer, Puan Noor Rizallinda binti Ishak, Practical Training Coordinator and Dr. Mohd Rofdzi bin Abdullah, Faculty Coordinator, I value the time, effort, encouragements and ideas that they have contributed towards the successful completion of my industrial training, this report and the valuable knowledge that have been shared over the last few semesters.

Last but not least, my special gratitude to my beloved parents for their sacrifices over the years.

Thank you so much.

## ABSTRACT

Progress claim is a very important thing in any construction, therefore this report will discuss about progress claim for main-contractor. This report is conducted based on experiences and knowledge gained during the industrial training at Bluebros E&C Sdn Bhd in Genting Highland. The objective of this report is to explain in detail about progress claim. It will focus on sequences of works in preparation of progress claim, parties and documents involved in progress claim works. In addition, this report will also look at the problems occur during the preparation of progress claim and on how to overcome the problems occurred. The proposed title is being done by collecting data and informations with aid of technology which is internet, books, interview and observation. In order to complete this report, it is needed to make observation along the way in the industrial training and as a theoretical support, books, website and meeting knowledgeable person are important.

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## **CHAPTER 1.0**

### **PREFACE**

#### **1.1 Introduction**

Construction industry contributes a lot in increases of economy of country. One of the incomes gained by the country is from the construction industry. In construction industry, payment is made based on progress claim prepared by contractor. The progress claim is prepared by employed quantity surveyor on behalf of contractor.

There are few parties involved in progress claim work such as contractor (claimant), clients and cost consultant who receive progress claim for review on behalf of clients.

Lastly, it is necessary to know the flow of works in preparing progress claim starting from site till the claim is submitted to the clients. Contractor can claim in monthly intervals based on stages of work done on particular dates. The time for issuing the progress claim is decided by clients and contractor as stated in the contract which usually will be end of month.

## **1.2 Objectives**

The objectives of this report are as follows:

- i. To study the progress claim and related items.
- ii. To identify the flowchart of progress claim and related items.
- iii. To identify the problem occur and how to overcome.

## **1.3 Scope of Study**

The case study of this report is based on the project of Cadangan Pembangunan Komplek Hotel 33 Tingkat (2 Menara dan Taman Tema Dalam Dengan Ruang Perniagaan Serta 11 Paras Sub-Besmen Yang Disambungkan Kepada Komplek Hotel First World Sedia Ada Di Atas Sebahagian Lot 9574, 9576, dan Lot 17283, Genting Highlands, Mukim Bentong, Daerah Bentong, Negeri Pahang Darul Makmur located. In duration of 5 months the study is conducted during the industrial training which started on 25 May 2015 until 9 October 2015.

The proposal study will investigate on how progress claim is made including the parties and documents involved in the work of claim. Besides, this report will determine the problems occur during the work of progress claim and also the solution to the problems.

## **1.4 Method of Study**

### **1.4.1. Observation**

Overall methodology of this report is actually based on observations conducted during the industrial training. Observations that have been made should be recorded and photographed as evidence while doing a report. The observation during industrial training will not only provide a lot of information but it can also give some effective and useful experience to the author. With this method any information can be find out accurately.

### **1.4.2. Interview**

Interview is one of the methodologies that can collect variety of information directly from the experienced party. It is conducted by interview the employees or employers who have a lot of knowledge and experiences in the industry. The data collected from the interview session should be recorded and it can be used as a guideline in writing this report. The parties who have been interviewed are mostly quantity surveyors at this company and some are from contract department. This method is a direct method to collect data verbally. This method also allows the interviewer to get documents for examples or attachments in the report.

### **1.4.3. Books**

This method is very efficient and trusted sources for the report. Books can be said to be trusted sources because it is written by knowledgeable person who usually will do some researches before the book is written. This methodology is also the main sources and more preferable in collecting data for this report.

### **1.4.4. Internet**

Internet is one of the quickest and easiest ways in collecting data. This study method can be used to do some research on the title of the report. This method is also use wisely in collecting data for this report.

## **CHAPTER 2.0**

### **COMPANY BACKGROUND**

#### **1.1 Introduction of Company**

The current market condition in construction industry is very competitive and as globalization continues to bring changes globally, the Malaysia Construction industry has since not being spared with escalating cost due to regional and global economic changes.

Hence, there has been competition among players within the industry to not only being expert at their field, but also adopt a service oriental approach toward client without compromising the highest quality, on time delivery and cost accountability.

In Bluebros Group of Companies, our key success factor are our experience hands on management team with proven track record and are able to deliver our work through a synergy approach partnership with our client. Our organization strives to provide solution to our client need and transform them accordingly to our client expectation. Our management team ensures a high level of professionalism and dedication toward to our commitment to our client.

Bluebros Group of Companies has proven strength capabilities and team work lead to its fast growing. Indeed, this has contributed to the national development. Bluebros Group of Companies is continuously developing its potential, creativity and innovation with state of the most technologies.

These efforts have brought Bluebros E&C SDN BHD into Malaysia government recognition by achieving CIDB “G7”. With our commitment and acknowledgement, we prove our capable of producing high quality services.

With the indication of Malaysia is on its prowl again in its quest to regain the impressive growth rates and emerge as an Industrialized Nation by the Bluebros Group of Companies is readily positioning itself in the magnitude and state of art momentum to be the choice of the future. Bluebros Group of Companies is here to receive and improve technologies to meet the requirements of the technologies age and strive to develop its efficient business player proving various services and products without compromise in safety, technical and environmental quality to provide solution in timely manner.

## 2.2 Company Profile



# COMPANY PROFILE

## BLUEBROS GROUP OF COMPANIES

- PEMBINAAN BUDI TUNGGAL SDN BHD (Co. No. 391047-D)  
– PLUMBING CONTRACTOR
- BLUEBROS E&C SDN BHD (Co. No. 823378-P)  
– MAIN BUILDERS
- BLUEBROS CONCRETE SDN BHD (Co. No. 820935-M)  
– READY MIX CONCRETE SUPPLIER
- BLUEBROS HEAVY MACHINERY (Co. No. 001784279-K)  
– RENTAL OF MACHINERIES
- BLUEBROS-7 ENTERPRISE (Co. No 002019634-X)  
– SWIFLETS & OTHERS BUSINESS

### WISMA BLUEBROS

No. 28-3, Jalan 8/23E, Taman Danau Kota, Off Jalan Genting Kelang, 53300 Setapak, Kuala Lumpur, Malaysia.

Tel: Fax: +603-4143 1988 Email: [bluebros8888@gmail.com](mailto:bluebros8888@gmail.com)

### 2.2.1 Company Background



Bluebros Group of Companies was incorporated in June, 2008 with a paid up capital of RM 1,000,000.00 and has since completed numerous prestige projects and has strengthened in transforming into a dynamic team of professional that is dedicated towards our undertakings.

The activities that Bluebros Group of Companies undertake includes:

- i. Design and Build Concept
- ii. Infrastructure works
- iii. Civil engineering works
- iv. Building works
- v. Plumbing services
- vi. Supply of ready mix concrete in Tanah Merah and Kuala Krai, Kelantan and Genting Highlands
- vii. Rental of heavy machineries & scaffolds
- viii. Swiftlets business

## **2.2.2 Vision and Mission**

### **Vision**

To be a solution provider to our clients and to ensure clients receive the highest quality, workmanship and satisfaction with value that beyond our client's expectations.

### **Mission**

On time delivery of our projects to our clients with most competitiveness cost, we strive continually to fulfill our mission by providing the best performance, value justification as well as cost minimization to our clients.

### **Quality Policy**

Our management continues to strive for improvement and innovations to provide the best possible customer satisfaction.

### **2.2.3 Company Motto**

- a) We offer high quality workmanship with the highest of professionalism.
- b) We always seek for a better partnership with our valuable clients, consultants and contractors.
- c) We provide competitive cost with excellent services.
- d) We continuously seek and include the latest in products, technology and materials for our project.
- e) We committed to supply perfecting concrete quality and deliver on time to all our valuable clients, consultants and contractors at all time.

## 2.2.4 Business Registration

Name of Company:	Pembinaan Budi Tunggal Sdn. Bhd. (391047-D) Bluebros E&C Sdn. Bhd. (823379-P) Bluebros Concrete Sdn. Bhd. (820935-M) Bluebros Heavy Machinery (001784279-K) Bluebros- <i>i</i> Enterprise (002019634-X)
Date of Incorporation:	June 2008
Address:	Wisma Bluebros, No. 28-3, Jalan 8/23E, Taman Danau Kota, Off Jalan Genting Kelang, 53300 Setapak, Kuala Lumpur.
Authorize Capital:	RM 500,000.00 for Pembinaan Budi Tunggal Sdn. Bhd. RM 5,000,000.00 for Bluebros E&C Sdn. Bhd. RM 1,000,000.00 for Bluebros Concrete Sdn. Bhd.
Paid-up Capital:	RM 500,000.00 for Pembinaan Budi Tunggal Sdn. Bhd. RM 2,100,000.00 for Bluebros E&C Sdn. Bhd. RM 1,000,000.00 for Bluebros Concrete Sdn. Bhd.

Directors and Shareholders: Lam Kong Yen  
Lam Kong Chin  
Lam Kong Loong  
Lam Kong Foo  
Lam Kong Tang

CIDB Registration: Bluebros E&C Sdn. Bhd.  
Grade G7 (no limit) – B04 & CE21

Company Secretary: Prolegend Corporate Services S/B  
No. 29-2, Jalan 46A/26,  
Taman Seri Rampai,  
53300 Kuala Lumpur.  
Tel:  
Fax: 03-4149 4745  
Email: [syleegroup@gmail.com](mailto:syleegroup@gmail.com)

## 2.2.5 Business Registration Certificates

### a. Business Registration

#### i. Pembinaan Budi Tunggal Sdn. Bhd. (391047-D)



	CERTIFIED TRUE COPY
PEJABAT PENDAFTAR SYARIKAT <i>(Registry of Companies)</i> MALAYSIA	Company Secretary NG KOK KEE (MACS 01219)
Akta Syarikat 1965	
PERAKUAN PEMERBADANAN SYARIKAT	
[Menurut Seksyen 11(2)(b)]	
No. Syarikat	
391047	D
Adalah diperakui bahawa	
<b>PEMBINAAN BUDI TUNGGAL SDN. BHD.</b>	
yang telah diperbadankan di bawah Akta Syarikat, 1965 pada dan mulai dari 19 haribulan Jun 1996, dan bahawa syarikat ini adalah sebuah syarikat berhad menurut syer dan bahawa syarikat ini adalah sebuah syarikat sendirian.	
Dibuat di bawah tandatangan dan meterai saya di Kuala Lumpur pada 21 haribulan Ogos 2001.	
(ARFAH BINTI ABDUL RAHIM) Penolong Pendaftar Syarikat Malaysia	

Figure 2.1: Business registration certificate for Pembinaan Budi Tunggal Sdn. Bhd.

ii. Bluebros E&C Sdn. Bhd. (823379-P)

  
SURUHANJAYA SYARIKAT MALAYSIA  
COMPANIES COMMISSION OF MALAYSIA

BORANG 9  
AKTA SYARIKAT 1965 [Seksyen 16(4)]

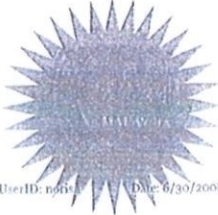
No. Syarikat  
823378 P

**PERAKUAN PEMERBADANAN SYARIKAT SENDIRIAN**

Dengan ini diperakui bahawa  
**BLUEBROS E&C SDN. BHD.**

telah diperbadankan di bawah Akta Syarikat 1965, pada dan mulai dari  
30 haribulan Jun 2008, dan bahawa syarikat ini adalah sebuah syarikat  
berhad menurut syer dan bahawa syarikat ini adalah sebuah syarikat sendirian.


Dibuat di bawah tandatangan dan meterai saya di Kuala Lumpur  
pada 30 haribulan Jun 2008.

  
TUTEH BINTI MAHMOOD  
PENORONG PENDAFTAR SYARIKAT  
MALAYSIA

UserID: n616 Date: 6/30/2008 9:38:41 AM

Figure2.2: Business registration certificate for Bluebros E&C Sdn. Bhd.

iii. Bluebros Concrete Sdn. Bhd. (820935-M)

  
SURUHANJAYA SYARIKAT MALAYSIA  
COMPANIES COMMISSION OF MALAYSIA


BORANG 9  
AKTA SYARIKAT 1965 [Seksyen 16(4)]

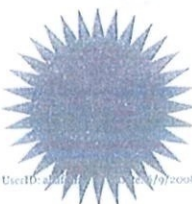
No. Syarikat  
820935 M

**PERAKUAN PEMERBADANAN SYARIKAT SENDIRIAN**

Dengan ini diperakui bahawa  
**BLUEBROS CONCRETE SDN. BHD.**  
telah diperbadankan di bawah Akta Syarikat 1965, pada dan mulai dari  
09 haribulan Jun 2008, dan bahawa syarikat ini adalah sebuah syarikat  
berhad menurut syer dan bahawa syarikat ini adalah sebuah syarikat sendirian.

Dibuat di bawah tandatangan dan meterai saya di Kuala Lumpur  
pada 09 haribulan Jun 2008.

  
**PUTEH BINTI MAHMOOD**  
PENOLONG PENDAFTAR SYARIKAT  
MALAYSIA



UserID: 9720082 5/23/2008 2:52:35 PM

Figure 2.3: Business registration certificate for Bluebros Concrete Sdn. Bhd.



b) Companies Paid Up Capital

i. Pembinaan Budi Tunggal Sdn. Bhd. (391047-D)



 SURUHANJAYA SYARIKAT MALAYSIA COMPANIES COMMISSION OF MALAYSIA			
<u>SUMMARY OF SHARE CAPITAL</u>			
Company Name		: PEMBINAAN BUDI TUNGGAL SDN. BHD.	
Company Number		: 391047-D	
TOTAL AUTHORIZED (RM) 500,000.00	AMT	DIVIDED INTO	NOMINAL VALUE (Sen)
	500,000.00	500,000	100
ORDINARY			
PREFERENCE	0.00	0	0
OTHERS	0.00	0	0
TOTAL ISSUED (RM) 500,000.00	CASH	OTHERWISE THAN CASH	NOMINAL VALUE (Sen)
	500,000	0	100
ORDINARY			
PREFERENCE	0	0	0
OTHERS	0	0	0

Figure 2.4: Paid Up Capital for Pembinaan Budi Tunggal Sdn. Bhd.

ii. Bluebros E&C Sdn. Bhd. (823379-P)



SURUHANJAYA SYARIKAT MALAYSIA  
COMPANIES COMMISSION OF MALAYSIA

2 / 6

SUMMARY OF SHARE CAPITAL

Company Name : BLUEBROS E&C SDN. BHD.  
Company Number : 823379-P


TOTAL AUTHORIZED (RM)	2014	2013	2012
5,000,000.00			
ORDINARY	5,000,000.00	5,000,000	100
PREFERENCE	0.00	0	0
OTHERS	0.00	0	0

TOTAL ISSUED (RM)	2014	2013	2012
2,100,000.00			
ORDINARY	100	2,099,900	100
PREFERENCE	0	0	0
OTHERS	0	0	0

Figure 2.5: Paid Up Capital for Bluebros E&C Sdn. Bhd.

iii. Bluebros Concrete Sdn. Bhd. (820935-M)



**SURUHANJAYA SYARIKAT MALAYSIA**  
COMPANIES COMMISSION OF MALAYSIA

2 / 1

MAKLUMAT MODAL

Nama Syarikat : BLUEBROS CONCRETE SDN. BHD.  
No.Syarikat : 820935-M

JUMLAH DIBEMARKAN (RM)	JUMLAH	BHAGI KEPADA	AMOUN NOMINAL (Sen)
1,000,000.00			
BIASA	1,000,000.00	1,000,000	100
PREFEREN	0.00	0	0
LAIN-LAIN	0.00	0	0


JUMLAH DITERBITKAN (RM)	TUNAI	SELAIN DARI TUNAI	AMOUN NOMINAL (SEN)
1,000,000.00			
BIASA	1,000,000	0	100
REFEREN	0	0	0
LAIN-LAIN	0	0	0

Figure 2.6: Paid Up Capital for Bluebros Concrete Sdn. Bhd.

c) CIDB Registration Certificate

i. Pembinaan Budi Tunggal Sdn. Bhd.

101480 A



## PERAKUAN PENDAFTARAN

Adalah dengan ini diperakui bahawa kontraktor yang dinyatakan di bawah ini telah berdaftar dengan Lembaga mengikut Bahagian VI Akta Lembaga Pembangunan Industri Pembinaan Malaysia 1994. Pendaftaran ini adalah tertakluk kepada syarat-syarat yang telah ditetapkan di belakang Perakuan ini

No Pendaftaran: 1970705-KD039067  
Nama Kontraktor: PEMBINAAN BUDI TUNGGAL SDN. BHD.

Alamat Berdaftar: NO. 29-2, JALAN 46A/26  
TAMAN SRI RAMPAL  
53300 KUALA LUMPUR  
WILAYAH PERSEKUTUAN

Gred, kategori dan pengkhususan berdaftar  
G5 B B04  
G5 CE CE21  
G5 ME M15

Tarikh Mula Berkuatkuasa: 12 SEP 2013  
Tarikh Habis Tempoh Perakuan: 11 SEP 2014  
\*Perakuan ini hendaklah diperbaharui sekurang-kurangnya 60 hari sebelum tarikh habis tempoh

**STATUS: AKTIF** - Kontraktor yang diawarkan projek semasa perakuan pendaftaran ini dikeluarkan.

( OTHMAN BIN RAZALI )  
b.p. Ketua Eksekutif  
Berterikh: 12 SEP 2013




Figure 2.7: CIDB Certificate for Pembinaan Budi Tunggal Sdn. Bhd.

ii. Bluebros E&C Sdn. Bhd.

**PERAKUAN PENDAFTARAN**

Adalah dengan ini diperakui bahawa kontraktor yang dinyatakan  
di bawah ini telah berdaftar dengan Lembaga mengikut  
Bahagian VI Akta Lembaga Pembangunan Industri Pembinaan Malaysia 1994.  
Pendaftaran ini adalah tertakluk kepada syarat-syarat yang telah  
ditetapkan di belakang Perakuan ini

No Pendaftaran: 0120100225-WP126004  
Nama Kontraktor: BLUEBROS E & C SDN BHD

Alamat Berdaftar: WISMA BLUEBROS  
NO 28-3, JALAN B/23E, TAMAN DANAU KOTA  
OFF JALAN GENTING KELANG, SETAPAK  
53300 KUALA LUMPUR  
WILAYAH PERSEKUTUAN

Gred, kategori dan penghujus berdaftar  
G7 B B04  
G7 CE CE21

Tarikh Mula Berkuatkuasa: 07 MAY 2014  
Tarikh Habis Tempoh Perakuan: 06 MAY 2017\*  
\*Perakuan ini hendaklah diperbaharui seawal tempohnya 60 hari sebelum tarikh habis tempoh.

**STATUS : AKTIF** - Kontraktor yang diawardkan projek semasa  
perakuan pendaftaran ini dikeluarkan.

( DATO' OTHMAN BIN RAZALI )  
b.p. Ketua Eksekutif  
Beratuh: 22 APR 2014



Figure 2.8: CIDB Certificate for Bluebros E&C Sdn. Bhd.

## 2.2.6 Organization Structure

Directors and Shareholders:	Lam Kong Yen Lam Kong Chin Lam Kong Loong Lam Kong Foo Lam Kong Tang
Accounting and Administration Department:	The Poh Ling Dasimah Binti Dali Norsila Binti Derani Nur Amirah Binti Saffiee Nor Amalina Binti Ariffin Zulaikha Binti Ramlan
Technical Staff:	Lam Kong Yen Lam Kong Chin Lam Kong Loong Lam Kong Foo Lam Kong Tang Eddie Wai Siang Fook Law Chong Ming Eddie Lim Kim Eng Oo Chye Guan Yeoh Boon Lim Mazita Md Zain
Safety Department:	She Kok Keong Barathidas Mohandas Mohd Akmal Bin Faharol Razi

Contract Department:

Jeffery Kok

Ryan Tang Seng Wai

Simon Teoh Sin Huat

Rose Aida Binti Shaffin

Nor Arida Binti Ariffin

Yap Cay Li

Tan Boon Huei

Ragupathy Rageran Nair A/L Manaharan Nair

### 2.2.7 List of Plant and Machineries owned by Bluebros Group Of Company

Table 2.1: List of Plant and Machineries.

No.	Description	Quantity
1.	Fully computerized 60m <sup>3</sup> /hour dry mix concrete batching plant at Tanah Merah (1 set), Kuala Krai (1 set), Gua Musang (1 set), Kelantan and Genting (2 sets)	5 sets
2.	Concrete mixer truck	60 units
3.	Bulk cement tanker truck	3 units
4.	Raw materials weighing bridge	4 sets
5.	Compression test machine for cube test	4 sets
6.	Shovel caterpillar 930	6 units
7.	10 wheeler tipper lorry	90 units
8.	6 wheeler tipper lorry	15 units
9.	4 wheeler tipper lorry	10 units
10.	3 tonne tipper lorry	15 units
11.	Excavator Hitachi EX-300	15 units
12.	Excavator Hitachi EX-200	7 units
13.	Excavator Hitachi EX-120	2 units
14.	Backhoe case Super-K, Super-L, Super-M	10 units
15.	20 tonne mobile crane	20 units
16.	25 tonne mobile crane	5 units
17.	50 tonne mobile crane	5 units
18.	100 tonne mobile crane	1 unit
19.	Luffing tower crane (55m JIB)	2 units
20.	Luffing tower crane (50m JIB)	2 units



21.	Topless tower crane (60m JIB)	3 units
22.	Back Pusher with power broom	5 units
23.	40ft long cargo trailer	1 unit
24.	40ft long low loader	1 unit
25.	Hitachi EX-300 65feet long arm crusher and breaker	1 unit
26.	Caterpillar 325L pneumatic air breaker	1 unit
27.	Hitachi EX-300 Pneumatic Air Breaker	1 unit
28.	3 tonne forklift	10 units
29.	Bobcat	3 units
30.	1 tonne steel roller compactor with vibro	8 units
31.	25 tonne steel roller compactor with vibro	3 units
32.	175psi air compressor c/w Toku breaker and hose	10 units
33.	Hi-power welding set	3 units
34.	4T concrete mixer	20 units
35.	32m radius concrete placing broom	2 units
36.	Stationary concrete pump	4 units
37.	Concrete distributor	2 units
38.	Mortar pump	3 units
39.	Water pump	10 units
40.	Cut and bend machines	20 units
41.	Full set of standard scaffold with accessories	20,000 sets
42.	Electric hacking machine c/w extension wire	200 sets
43.	Oxy-acetylene cutter set	10 sets
44.	Twin cage material/ passenger hoist (24 pax/cage)	2 units

### 2.3 Organization Chart

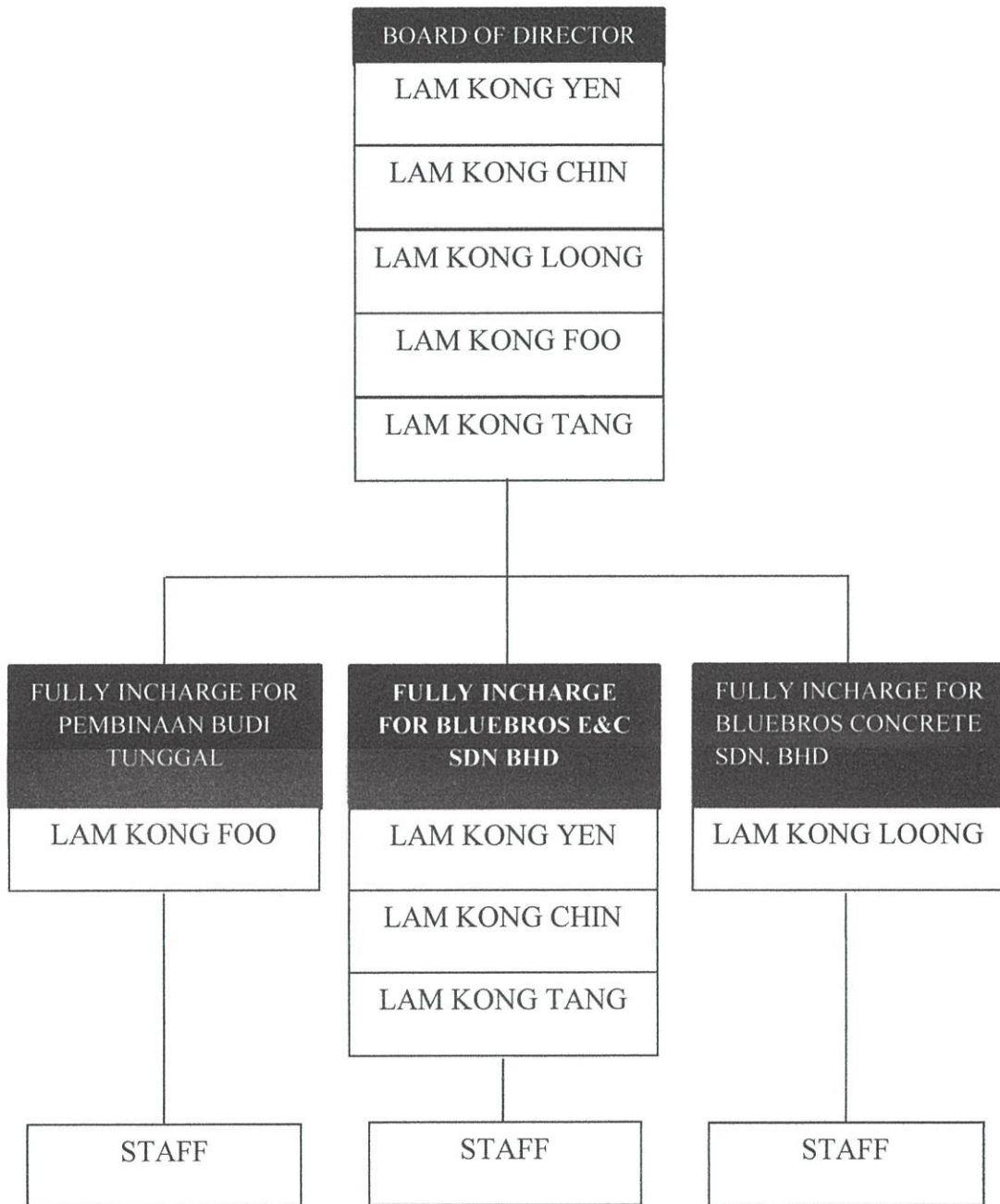


Figure 2.9: Organization Chart for Bluebros Group of Company

## 2.4 List of Projects

### 2.4.1 Completed Projects

Table 2.2: List of Completed Projects.

No.	Project Title	Contract Value
1.	The Construction & Completion (4 Level of Basement Car Park, 6 Levels of Retail and 46 Levels of Office) of the Super Structure. Main contract work of the proposed mixed development on lot 171 (Lot C) at Persiaran KLCC, Kuala Lumpur for m/s Arena Merdu Sdn. Bhd.	RM 5,660,459.00
2.	Cadangan Pengubahsuaian Dalaman Kepada Sebahagian Tingkat 2 & 3 (Grand Ballroom) Sedia Ada Di Komplek Genting Hotel, Di Atas Sebahagian Lot 9575 (50b), Genting Highland, Mukim Bentong, Daerah Bentong, Negeri Pahang Darul Makmur.	RM 2,654,776.00
3.	Proposed Upgrading of Existing Lobby Driveway at First World Hotel at Genting Highlands, Pahang.	RM 99,340.00
4.	Construction & Completion of Security Post Check Point at Genting Highlands, Pahang.	RM 180,000.00
5.	The Proposed Upgrading of Existing Swimming Pool for Awana Genting Highlands Golf and Country Resort,	RM 421,571,00

	Genting Highlands. ~Demolition, Structural & Architectural Works	
6.	Construction & Completion of Convert Pavilion to New Gaming at Genting Highlands, Pahang. ~Demolition, Structural & Architectural Works	RM 18,000,000.00
7.	Construction & Completion of Proposed 2 Storey Bungalow c/w Basement Car Park at Bukit Tunku, Kuala Lumpur.	RM 8,500,000.00
8.	Construction & Completion of Proposed 2 storey Bungalow for at Taman Bukit Desa, Kuala Lumpur.	RM 1,065,000.00
9.	Construction & Completion of Convert Grand Ballroom to Genting Club at Genting Highlands, Pahang. ~Demolition, Structural & Architectural Works	RM 17,040,000.00
10.	Construction & Completion of Genting Hotel Main Lobby Renovation at Genting Highlands, Pahang.	RM 1,300,000.00
11.	Construction & Completion of Patio Upgrading and Renovation at Genting Highlands, Pahang.	RM 1,500,000.00
12.	Construction & Completion of Awana Condominium Resorts Renovation at Genting Highlands, Pahang. ~Demolition, Structural & Architectural Works	RM 918,000.00
13	Construction & Completion of B5 Hotel Resorts Renovation at Genting Highlands, Pahang. ~Demolition, Structural & Architectural Works	RM 1,622,000.00

14.	Cadangan Pengubahsuaian Dalaman, di Paras B3, Rumah Berhala “Chin Swee” Sedia Ada Di Atas Lot 9586, Geran 3573, Genting Highlands, Mukim Bentong, Daerah Bentong, Negeri Pahang Darul Makmur. ~Builder Works including PC Sums for M&E Works	RM 645,094.00
15.	Cadangan Tambahan “Landas Angkat” (Ramp) Kereta Naik Turun Baru Kepada Tempat Letak Kereta Bertingkat, Di Paras B3-B10, Komplek Hotel First World Hotel Sedia Ada Di Atas Sebahagian Lot 9574, 9575, 9576, 9577 Dan PT 12522, Genting Highlands, Mukim Bentong, Daerah Bentong, Negeri Pahang Darul Makmur. ~Super Structural Works	RM 5,842,842.00
16.	Cadangan Pengubahsuaian Dalaman Ruang Perniagaan Maxims Sedia Ada Di Sebahagian Tingkat 3 & 4, Komplek Hotel Genting Di Atas Sebahagian Lot 9575, Geran 3629, Genting Highlands, Mukim Bentong, Daerah Bentong, Negeri Pahang Darul Makmur (Private Gaming Suites @ T3 Genting Grand Hotel) ~Demolition, Structural & Architectural Works	RM 2,528,965.00
17.	Proposed New Petrol Station, Workshop and Rest Area At Genting Highlands, Pahang.	RM 5,498,646.00

## 2.4.2 Projects in Progress

Table 2.3: List of On-going Projects.

No.	Address	Contract Value
1.	Cadangan Pembangunan Kompleks Hotel 33 Tingkat (2 Menara) Dan Taman Tema Dalaman Dengan Ruang Perniagaan Serta 11 Paras Sub-besmen Yang Disambungkan Kepada Kompleks Hotel First World Sedia Ada Di Atas Sebahagian Lot 9574 , 9575 , 9576 Dan Lot 17283, Genting Highland, Mukim Bentong, Daerah Bentong, Negeri Pahang, Darul Makmur.	RM 849,259,891.90
2.	Proposed Twentieth Century For World at Genting Highlands, Pahang Darul Makmur for Genting Malaysia Berhad. 400,000 Gallon Reservoir ~Structural Works including M&E Works	RM 5,674,936.16

## CHAPTER 3.0

### PROGRESS CLAIM

#### 3.1 Introduction of Project

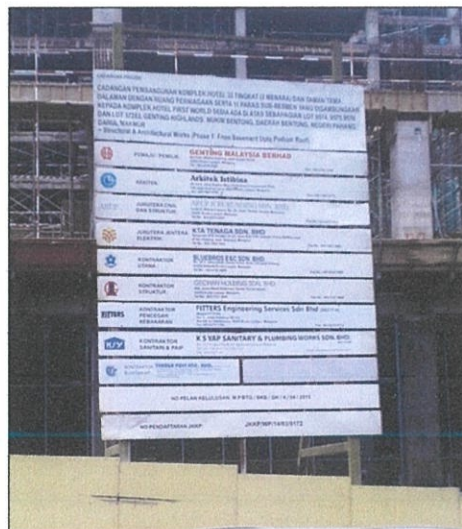


Photo 3.1: Project signboard.

Title of the project is ‘Cadangan Pembangunan Kompleks Hotel 33 Tingkat (2 Menara) Dan Taman Tema Dalamannya Dengan Ruang Perniagaan Serta 11 Paras Sub-besmen Yang Disambungkan Kepada Kompleks Hotel First World Sedia Ada Di Atas Sebahagian Lot 9574 , 9575 , 9576 Dan Lot 17283, Genting Highland, Mukim Bentong, Daerah Bentong, Negeri Pahang, Darul Makmur’. The project was started on June 2014 and target to be done on January 2016. Genting Malaysia Berhad is a client who employed Bluebros E&C Sdn. Bhd. as a main contractor to

construct 2 tower of hotel with sub-basement, indoor theme-park and mall. The current progress of this project is the construction of genting mall and hotel tower including the basement. Lastly, the contract value of the construction project is RM 849,259,891.90. However, the main focus for this report is the construction of genting mall which has 6 floor levels including basement.



### 3.1.1 Contract and Quantity Surveyor Department Organization Chart

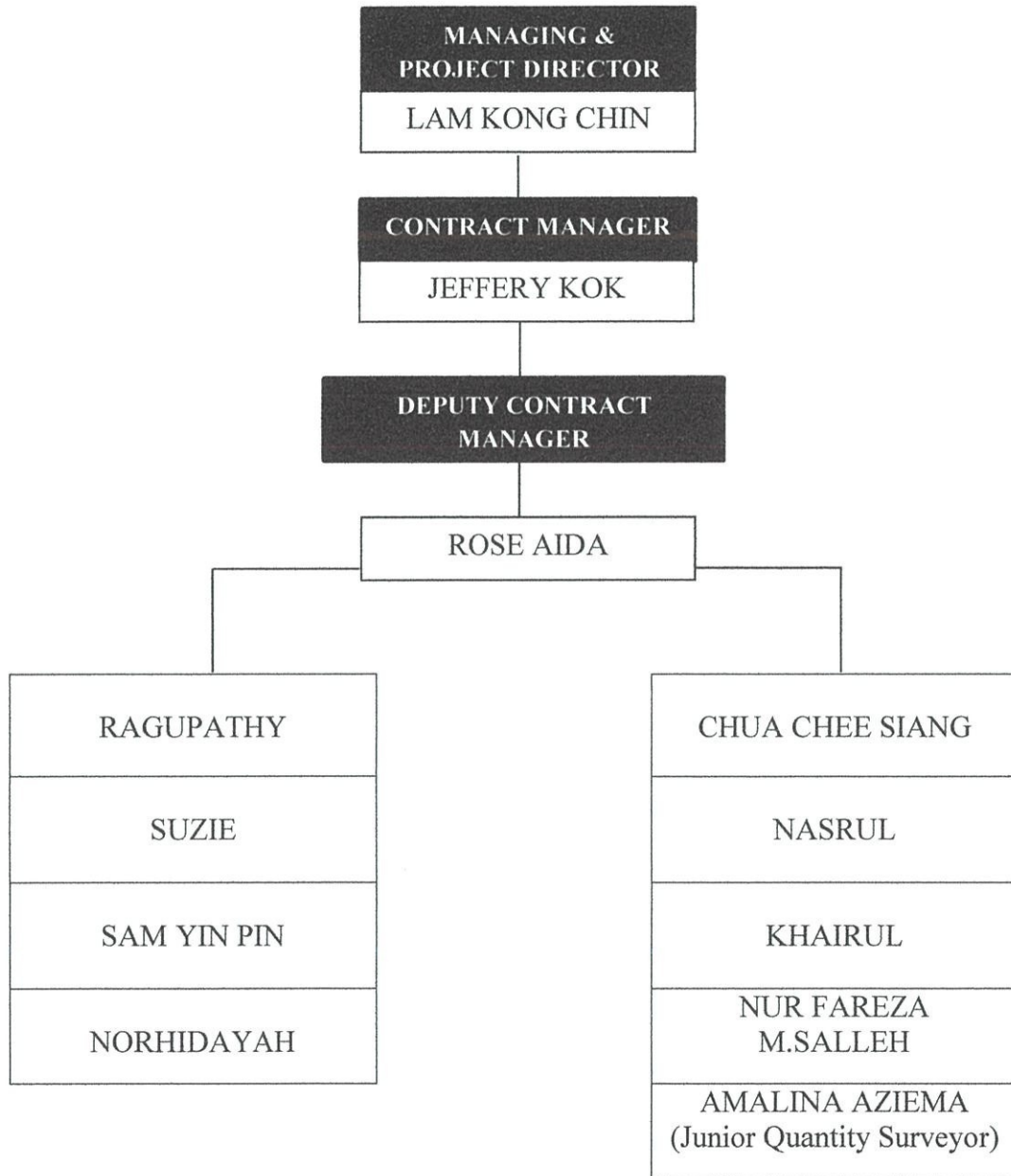


Figure 3.1: Contract and Quantity Surveyor Department Organization Chart.

Source: Site Office Bluebros E&C Sdn. Bhd. (2015)

## **3.2 Case Study**

### **3.2.1 Introduction of Case Study**

The purpose of progress claim is to claim for payments progressively until the completion date of the project. It can be divided into 3 main claims which are first claim (deposit), monthly claims and final account (the total value of work completed). Monthly claim is a very important part in progress claims as it is the major claims in main contractor claim for the work done.

### **3.2.2 Party Involved in Claim Works**

Main contractor is a party which acts as a claimer and will prepare progress claim for clients to be approved. The main contractor will employed quantity surveyor to do all the measurement works in preparing main contractor claim. The quantity surveyor employed might be quantity surveyor who works under main contractor or consultant who employed for the project. However in this case study, quantity surveyor under main contractor is applied.

Client is one of the most important parties involved in claim works who will approve or reject the claim. The claim will be review by quantity surveyor on behalf of consultant. It can be in-house quantity surveyor or outsource quantity surveyor. In this case study, in-house quantity surveyor which is under client is applied.

### **3.2.3 Documents Involved in Progress Claim**

- i. Summary Drawings
- ii. Taking off for the elements
- iii. Drawing for the taking off (Current progress drawing)
- iv. Bar Bending Schedule (BBS)
- v. Request For Inspection Form (RFI)
- vi. Email from consultants (engineer and design team)

All photos, example or drawings are attached in the appendix.

### **3.2.4 Sequence of Works in Preparation of Main Contractor Progress Claim**

#### 3.2.4.1 First claim

First claim is related to preliminaries works where main contractor usually claim the cost of the preliminaries works such as temporary drainage and pumping, contract documents, site management cost, temporary site office, temporary roads and maintenance. In first claim, it can be divided into 3 parts which are initial cost, recurring cost and final cost.

#### 3.2.4.2 Progress claim

Method used in preparing progress claim in this case study is combination of 2 methods which are measure the work completed since the last progress claim and determine a percentage of each work item completed since the commencement of the works ("Progress Claims," n.d.).

Sequences of work in preparing claim:

- i. Receive emails from consultants which are engineer and architect for the next construction progress.
- ii. Work is done on site based on drawings attached in the emails.
- iii. Site valuation by main contractor for preparation of claim. During the site valuation, quantity surveyor on behalf of main contractor will check the work progress on site. After the site valuation, the quantity surveyor will mark the elements that have been constructed on drawings.
- iv. Check bar bending schedule (BBS) which prepared by in-house engineer with details drawing from consultant. The details that need to be checked are number of bars used, diameter of bars, length of bars and bend. After that, key in all the details into taking off.

Project:		Zone / Block:		Drawing No.:		Page:	
Item	B. Mark	Size	Unit	N-each	Total	Length	Shape
1860	B01	725	1	7	7	9780	430 L 7330
	B02	725	1	14	14	9540	9540
	B03	725	1	7	7	5800	5800
	B04	732	1	225	10	5800	5800
	B05	725	1	7	7	11340	11340
	B06	725	1	7	7	7600	7600
	B07	725	1	7	7	6330	6330
	B08	725	1	14	14	7800	7800
	B09	725	1	7	7	7900	7430 7430
	B10	725	1	7	7	12000	430 L 11530
	B11	725	1	7	7	8780	8780
	B12	732	1	5	5	9320	9320
	B13	732	1	8	8	8330	8330
	B14	732	1	5	5	10060	10060
	B15	732	1	5	5	9840	9840
	B16	732	1	7	7	12000	12000
	B17	732	1	2	2	4330	4330
	B18	732	1	5	5	6900	6900
	B19	732	1	5	5	9470	9020 1430
	B20	706	1	40	40	12000	12000
	B21	700	1	133	133	2960	980 x 270
	B22	700	1	133	133	2930	980 x 260
	B23	700	1	133	133	3000	980 x 270
	B24	700	1	133	133	2970	980 x 260

Photo 3.2: Sample of Bar Bending Schedule (BBS).

- v. Prepare taking off for every constructed element. This is an important process in preparing progress claim because in this process all the quantities will be determined and this will produce the total amount that main contractor want to claim. Taking off is made based on layout and details drawings from consultants.

REKAN PERENCANAAN ARKITEKTUR KOMPLEK HOTEL 33 TINGKAT (2 MENARA) DAN TAMAN TERPADU DENGAN TIJUAN PEMBANGUNAN SERTA TITIPANAN SUB-BESMER YANG LUSAS BERDASAR KEPAKRA KOMPLEK HOTEL FIRST WORLD SELATAN  
 PANJANG DARI MAJLIS  
 dan & Architectural Works (Phase 1: From Basement Up to Podium Roof)  
 on : Ceiling Mail  
 tion : Suspended Beam

DESCRIPTION	NO. of S/Beam	Dimension				Conc. (G35)	Formwork												Bar Mark	Bar Shape	Length of Bar Shape (M)						Leng for Splice
		L	W	H	HD		Fw (Side)	Fw (Soft)	Fw (Side)	Fw (Soft)	Fw (Side)	Fw (Soft)	Fw (Side)	Fw (Soft)	Fw (Side)	Fw (Soft)	a	b			c	d	e	Lap			
		A	B	C	D		(A-B-C-D)	(A-B-D-C)	(A-B-C)	(A-B-D-C)	(A-B-C)	(A-B-D-C)	(A-B-C)	(A-B-D-C)	(A-B-C)	(A-B-D-C)											
No	M	M	M	M	M'	M'	M'	M'	M'	M'	M'	M'	M'	M'													

Photo 3.3: Sample of taking off form for suspended beam.

- vi. Transfer quantity from taking off to bill of quantities.

Table 3.1: Sample of Bill of Quantities form.

UNIT	CONTRACT			WORKDONE	
	Quantity	Rate	Amount	Quantity / Percentage (%)	Amount

- vii. Prepare summary for bill of quantities of architectural and structural. Grand summary also need to be prepared which summarized current and previous bill of quantities.

- viii. Snap picture of latest site progress as attachment in the progress claim. This is as evidence that the claim is based on current progress on site. Those pictures are usually snapped during main contractor site valuation and after the taking off are done.



Photo 3.4: Photo before progress.



Photo 3.5: Photo after progress.

- ix. Compilation of all taking off and attachments into a file for submission to client.

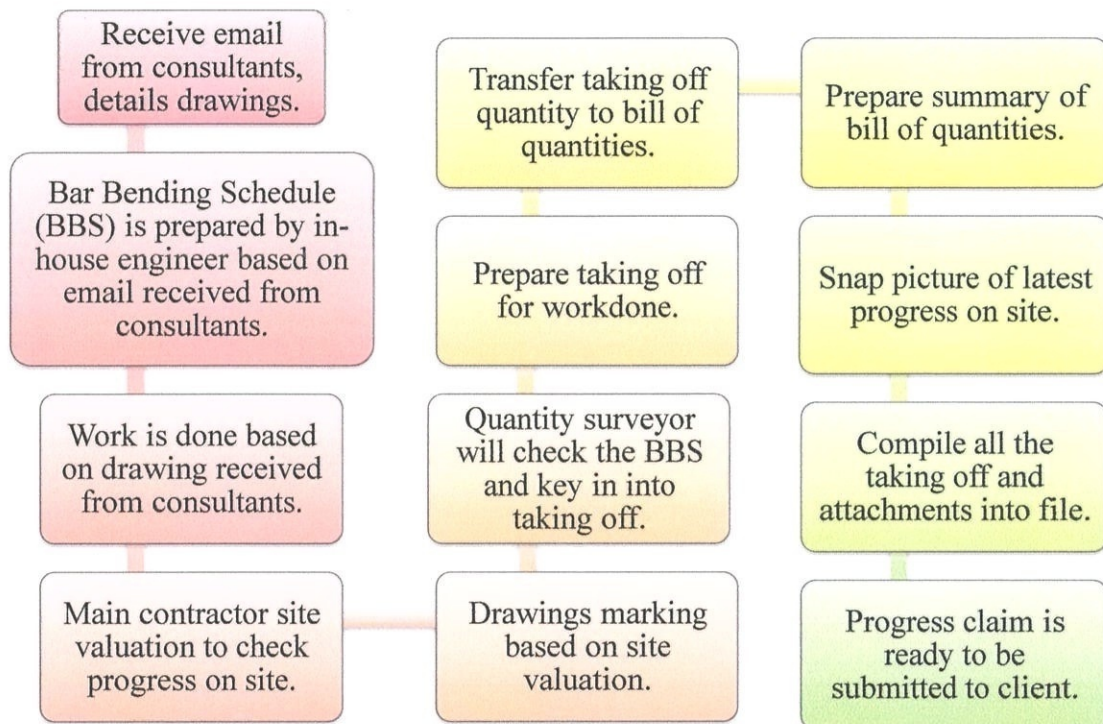


Figure 3.2: Flowchart of preparing progress claim.

### **3.2.5 Problem and Solution Involved in Claim**

#### 3.2.5.1 Changes of design

Changes of design may occur due to drawing is not finalized. This changes usually is a major changes which can effects the claim works as the measured work done is also change. For example, a beam is constructed and suddenly design is changed where the beam need to be enlarge, so the constructed beam needs to be hacked.

Thus, the additional claim is needed where the hacking work valuation and new taking off for the new design is put under the valuation order (VO) for claim. However, if there is still no progress on site when the design is changed, so just normal taking off is needed.

#### 3.2.5.2 Instruction from clients

Verbal instruction from client, request for minor changes of design is also one of the problems in preparing claim. The instruction is normally made during their site visit or in weekly meeting between client and consultants.

The solution is the same as problem above which hacking work valuation and new taking off is needed.



### 3.2.5.3 Claim is not approved

Some elements in claim, there must be Request For Inspection Form (RFI) which filled by site representative and approved by consultants. The elements that usually needs this form is column, beam and slab. Claim may not be approved because of Request For Inspection Form (RFI) is not attached in claim. This problem usually occurs because of the form is pending during consultant's approval.

The problem can be overcome by bring forward the claim to the next month claim until the pending Request For Inspection Form (RFI) is returned to main contractor.

## **CHAPTER 4.0**

### **CONCLUSION**

#### **4.1 Conclusion**

Every progress claim submitted by contractor must be verified. The parties who verify progress claim is usually client which employs cost consultant. The cost consultant employed by client will receive progress claim for review and will also issue evaluation. There are so many methods to verify the progress claim such as measure completed work on site, measure from drawings, bill of quantities and agreed value of the stage completed. However, the method used in this case study is measure completed work on site. This method may be complicated and slow but it is the most accurate method of determining the completed quantity.

## REFERENCES

Progress Claims. (n.d.). Retrieved from

<http://bctcwagga.riverinainstitute.wikispaces.net/file/view/progress+claim+notes.pdf>

Progress Claims. (n.d.). Retrieved from

<http://bctcwagga.riverinainstitute.wikispaces.net/file/view/progress+claim.pdf>

Towey, D. (2012). *Construction quantity surveying: A practical guide for the contractor's QS*. Chichester, U.K: Wiley-Blackwell.

## **APPENDIX**

- 1) Sample of e-mail from consultants
- 2) Request For Inspection (FRI) form
- 3) Current progress claim drawing
- 4) Sample of taking off for suspended beam
- 5) Sample of Bar Bending Schedule (BBS)



Bluebros Siteteam &lt;bluebrosjaya@gmail.com&gt;

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**M1503: Beam layout and details for Genting Mall T2 at (Gridline S2-M4, K7-K)**1 message

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Weng Hong &lt;wong.weng.hong@arup.com.my&gt;

21 September 2015 at 22:06

To: Bluebros Siteteam &lt;bluebrosjaya@gmail.com&gt;, BLUEBROS E&amp;C SDN BHD &lt;bluebros8888@gmail.com&gt;

Cc: Teng Kong Lein &lt;teng.kong.lein@arup.com.my&gt;, wong.mun.meng@arup.com.my, lye seng saw &lt;sawlyeseng@yahoo.com&gt;, obs@ktatenaga.com.my, Vince Khor Kah Shiang &lt;vince.khor@rwgenting.com&gt;, koonyew.ong@rwgenting.com, Ong Wei Xiang &lt;weixiang.ong@rwgenting.com&gt;, Frankie Hiew Yuen Loy &lt;yuenloy.hiew@rwgenting.com&gt;, wcl140663@yahoo.com, tmike.aib@gmail.com, 'kyyee.aib@gmail.com', Yacoub Yousif &lt;yacoub.yousif@qasb.com&gt;, Henry Kittrell &lt;henry.kittrell@qasb.com&gt;

Dear Bluebros,

Please find attachment for the slab layout and details for Genting Mall T2 at (Gridline S2-M4, K7-K) for your further action.

Kindly take note that:

1. This drawings shall be read in conjunction with the architectural latest drawings. Any discrepancies in the drawings should be reported to ARUP immediately.
2. Kindly get the acknowledgment from GMB and AIB before proceeding on any construction on this area.

Thanks.

Regards  
*Nick*

AJSB

**T2 at (Gridline S2-M4, K7-K).pdf**

7439K

# REQUEST FOR INSPECTION FORM

**BLUEBROS E&C SDN BHD**

PROJECT : CADANGAN PEMBANGUNAN KOMPLEK HOTEL 33 TINGKAT (2 MENARA) DAN TAMAN TEMA DALAMAN DENGAN RUANG PERNIAGAAN SERTA 11 PARAS SUB-BESMEN YANG DISAMBUNGAN KEPADA KOMPLEK HOTEL FIRST WORLD SEDIA ADA DI ATAS SEBAHAGIAN LOT 9574,9575, 9576 DAN LOT 17283, GENTING HIGHLANDS, MUKIM BENTONG, DAERAH BENTONG, NEGERI PAHANG DARUL MAKMUR.  
 - Structural & Architectural Works (Phase 1: From Basement up to Podium Roof)

CODE :

**ITEM REQUIRES FOR INSPECTION :**

DATE : 07/09/2015

R.F.I NO : RFI/BB/GM/STRUC/00 710

- STRUCTURE ( Setting Out, Level, Formwork, Rebar )
- ARCHITECTURE ( Setting Out, Verticality, Alignment, Level )
- M & E ( Pipe Sleeve, Opening, Fitting )
- SAFETY ( Scaffolding, Catch Platform, Barricade )

NO	DESCRIPTION	LOCATION
	<u>Beams and Slabs</u>	<u>GENTING MALL</u> <u>T2</u> <u>GL: 82-M2 / K3-K49</u>

CHECKLIST		CHECKLIST	
1. Tie rods and with fasteners	<input checked="" type="checkbox"/>	9. U head/jack base vertically	<input checked="" type="checkbox"/>
2. Spacer blocks	<input type="checkbox"/>	10. High level G.I. pipes horizontal tie	<input type="checkbox"/>
3. Levels	<input type="checkbox"/>	11. Scaffolding spacing according to design	<input type="checkbox"/>
4. Scaffold horizontal & diagonal tie by G.I. pipe	<input type="checkbox"/>	12. Lifelines @ edges or opening	<input type="checkbox"/>
5. Scaffold base support	<input type="checkbox"/>	13. Edges temporary railing	<input type="checkbox"/>
6. Wall ties to casted column	<input type="checkbox"/>	14. Access	<input type="checkbox"/>
7. U head/jack base maximum height	<input type="checkbox"/>	15. Barication/protection	<input type="checkbox"/>
8. Joint pin connection condition	<input type="checkbox"/>		<input type="checkbox"/>

INSPECTION DATE : 08/09/15  
 TIME : 3:30 PM

ISSUED BY :

**COMMENTS :**

GenM \_\_\_\_\_ ARKITEK ISTIBINA \_\_\_\_\_ ARUP \_\_\_\_\_ KTAT \_\_\_\_\_  
 Date: \_\_\_\_\_ Date: \_\_\_\_\_ Date: \_\_\_\_\_ Date: \_\_\_\_\_

Safety \_\_\_\_\_ Project/ Site Manager \_\_\_\_\_  
 Date: \_\_\_\_\_ Date: \_\_\_\_\_

NO. BIL. BANGUNAN: AIB4077445074-25201-1  
 NO. BIL. LUPUTAN: RI-1  
 ZONE: 485  
 PELAN TINGKAT B2 (SEBAHAGIAN)  
 Level TOPC to level 5588  
 Column  
 PREVIOUS

EN. IZWAN BIN ABDULLAH  
 GEORANG MALAYSIA BERHAD  
 NO. 11, JALAN KEMAS, TAMAN DATARAN SERI,  
 47100 SEREMBAN, NEGERI SEMBILAN.  
 TEL: (03)-71541410



ARKITEK ISTIBINA  
 31-2, Jalan Kuching Jaya 18, Kuching Environmental Park,  
 93100 Kuching, Sarawak, Malaysia  
 TEL: (082)-9271710

ARKITEK	C. J. ONG
PEKERJA KECIL ARKITEK	MOH. HUSNAN
TEKNIKAR KECIL	MOH. HUSNAN
SAKSI	MOH. HUSNAN
TARBIH	MOH. HUSNAN
NO. BIL. BANGUNAN	S.B.C. 2014

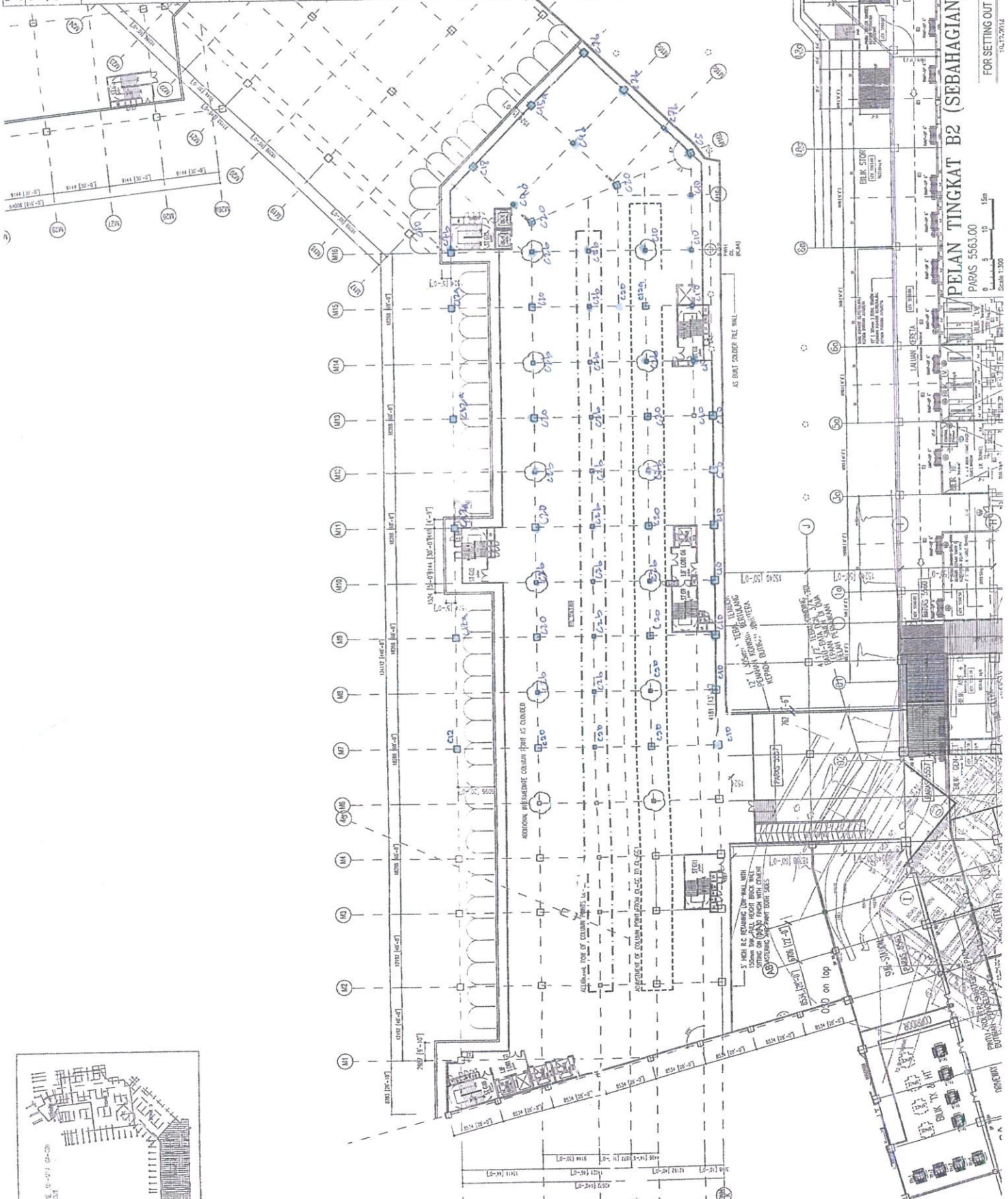
CADANGAN PEMBINAAN SEMULA TAMAN  
 TAMAN LUAR GENTING SEDIA ADA KEPADA  
 TAMAN TAMAN LUAR TWENTY-TH CENTURY  
 FOX PARK, BARU DAN SEBUAH  
 GENTING HILLS 5 TINGKAT DI ATAS  
 SEBAHAGIAN LOT 9575, 9576, 9577,  
 9578, PT. 2070 DAN LOT 17283,  
 GENTING HIGHLANDS,  
 MUKIM DAN DAERAH BENTONG,  
 PAHANG DARUL MAHAJIR  
 UNTUK  
 TETUAN GENTING MALAYSIA BERHAD

**PELAN BANGUNAN**

**PRELIMINARY SETTING OUT DRAWING**

NOTE:  
 1. ALL STRUCTURAL FOOT AND RETAINING WALL SETTING IS  
 SUBJECT TO FURTHER CORROBORATION BY FOOT AND CURB  
 SETTING CONTRACTOR AND LEVEL IS  
 2. SUBJECT TO CORROBORATION BY CLIENT

DATE: 15/01/2014  
 ARCHITECTS: EN. IZWAN BIN ABDULLAH  
 GEORANG MALAYSIA BERHAD  
 INTERNAL USE OF COLUMN - G. 01-4  
 ADDITIONAL INTERMEDIATE COLUMN BETWEEN OF SPAN



FOR SETTING OUT  
 15.01.2014





Project: CONTING. Mall.  
 Zone / Block: Basement Drawing No: \_\_\_\_\_  
 Level: \_\_\_\_\_ Page: 2

Item	B. Mark	Size	Unit	N-each	Total	Length	Shape
<u>1B72<sup>a</sup></u>	B01	T25	1	10	10	9780	450   <u>9330</u>
	B02	T25	1	10	10	9700	<u>9700</u>
	B03	T32	1	8	8	12000	<u>11550</u>   450
	B04	T25	1	6	6	11230	450   <u>10780</u>
	B05	T25	1	6	6	9460	<u>9460</u>
	B06	T32	1	7	7	10770	<u>10320</u>   450
	B07	T32	1	7	7	8740	<u>8740</u>
	B08	T46	1	16	16	12000	<u>12000</u>
	B09	T46	1	8	8	5950	<u>5950</u>
	<u>L1</u>	<u>T40</u>	<u>1</u>	<u>136</u>	<u>136</u>	<u>3250</u>	<u>980 x 530</u>
	<u>L2</u>	<u>T40</u>	<u>1</u>	<u>136</u>	<u>136</u>	<u>2574</u>	<u>980 x 162</u>
	<u>L3</u>	<u>T42</u>	<u>1</u>	<u>30</u>	<u>30</u>	<u>3300</u>	<u>980 x 370</u>
	<u>L4</u>	<u>T42</u>	<u>1</u>	<u>30</u>	<u>30</u>	<u>2580</u>	<u>980 x 166</u>
<u>1B68</u>	B01	T25	1	9	9	8360	450   <u>7910</u>
	B02	T32	1	18	18	6300	<u>6300</u>
	B03	T25	1	9	9	7440	<u>6990</u>   450
	B04	T40	1	7	7	10440	450   <u>9990</u>
	B05	T40	1	7	7	3560	<u>3560</u>
	B06	T40	1	7	7	10260	<u>10260</u>
	B07	T32	1	9	9	9020	<u>8570</u>   450
	B08	T46	1	8	8	12000	<u>12000</u>
	B09	T46	1	8	8	7800	<u>7800</u>
	<u>L1</u>	<u>T40</u>	<u>1</u>	<u>47</u>	<u>47</u>	<u>3560</u>	<u>980 x 680</u>
	<u>L2</u>	<u>T40</u>	<u>1</u>	<u>47</u>	<u>47</u>	<u>2628</u>	<u>980 x 273</u>
	<u>L3</u>	<u>T42</u>	<u>1</u>	<u>11</u>	<u>11</u>	<u>3600</u>	<u>980 x 680</u>
	<u>L4</u>	<u>T42</u>	<u>1</u>	<u>11</u>	<u>11</u>	<u>2682</u>	<u>980 x 277</u>