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ECONOMIC CENSUS

2016

PERLOMBONGAN DAN PENGKUARIAN
MINING AND QUARRYING

JABATAN PERANGKAAN MALAYSIA
DEPARTMENT OF STATISTICS, MALAYSIA

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Penerbitan ini memaparkan perangkaan bagi sektor perlombongan dan pengkuarian yang diperoleh daripada Banci Ekonomi 2016 bagi tahun rujukan 2015. Sektor perlombongan dan pengkuarian merangkumi semua industri dalam Seksyen B kecuali petroleum dan gas asli yang dikelaskan di bawah Piawaian Klasifikasi Industri Malaysia (MSIC) 2008 Ver. 1.0, selaras dengan Piawaian Klasifikasi Industri Antarabangsa bagi Semua Aktiviti Ekonomi (ISIC), Semakan Ke-4, 2008. Kali terakhir banci ini dijalankan adalah pada tahun 2011 bagi tahun rujukan 2010.

Data utama yang berkaitan dengan nilai output kasar, nilai input perantaraan, nilai ditambah, bilangan pekerja, gaji & upah dan nilai harta tetap dilaporkan dalam penerbitan ini. Maklumat pekerja mengikut kelulusan dan pemilikan wanita turut dipaparkan. Data tersebut boleh digunakan oleh agensi kerajaan, ahli ekonomi, ahli akademik, pihak swasta serta individu bagi tujuan membuat perancangan dan penggubalan dasar, analisis ekonomi, unjuran dan dapat membantu merancang pembangunan perniagaan.

Penerbitan ini dibahagikan kepada tiga bahagian. Bahagian pertama memaparkan hasil penemuan bagi keseluruhan perkhidmatan hartanah. Aspek teknikal seperti skop dan liputan, konsep dan definisi serta pembolehubah utama yang digunakan diterangkan di bahagian kedua bagi memudahkan pengguna memahami statistik yang diterbitkan, manakala bahagian ketiga pula memaparkan jadual perangkaan terperinci.

Jabatan merakamkan setinggi-tinggi penghargaan atas kerjasama yang diberikan oleh reponden dan juga semua pihak yang telah menyumbang secara langsung dan tidak langsung dalam menjayakan banci ini. Setiap maklum balas dan cadangan untuk penambahbaikan laporan ini pada masa akan datang amat dihargai.

DR. MOHD UZIR BIN MAHIDIN

Ketua Perangkawan Malaysia

Julai 2017

This publication presents statistics on mining and quarrying obtained from the Economic Census 2016 for reference year 2015. Mining and quarrying sector include all industries in Section B except petroleum and natural gas classified under the Standard Industrial Classification (MSIC) 2008 Ver. 1.0, in accordance with the International Standard Industrial Classification of All Economic Activities (ISIC), Revision 4, 2008. The last census was conducted in 2011 for reference year 2010.

Key data related to value of gross output, intermediate input, value added, number of persons engaged, salaries & wages and value of fixed assets are reported in this publication. Information on number of persons engaged by qualification and women ownership are also published. These data can be used by government agencies, economists, academicians, private sectors and individuals for planning and formulations policies, economic analysis, projections and to assist in business development planning.

This publication is divided into three parts. The first part displays the findings for the entire real estate services. Technical aspects such as scope and coverage, concepts and definitions as well as the key variables used are describes in the second part to assist users to understand the published statistics. Meanwhile, the third part provides the detailed statistical tables.

The Department gratefully acknowledges the co-operation rendered by the respondents as well as all parties who have contributed directly and indirectly in making this census a success. Every feedback and suggestion towards improving future reports is highly appreciated.

DR. MOHD UZIR BIN MAHIDIN

Chief Statistician Malaysia

July 2017

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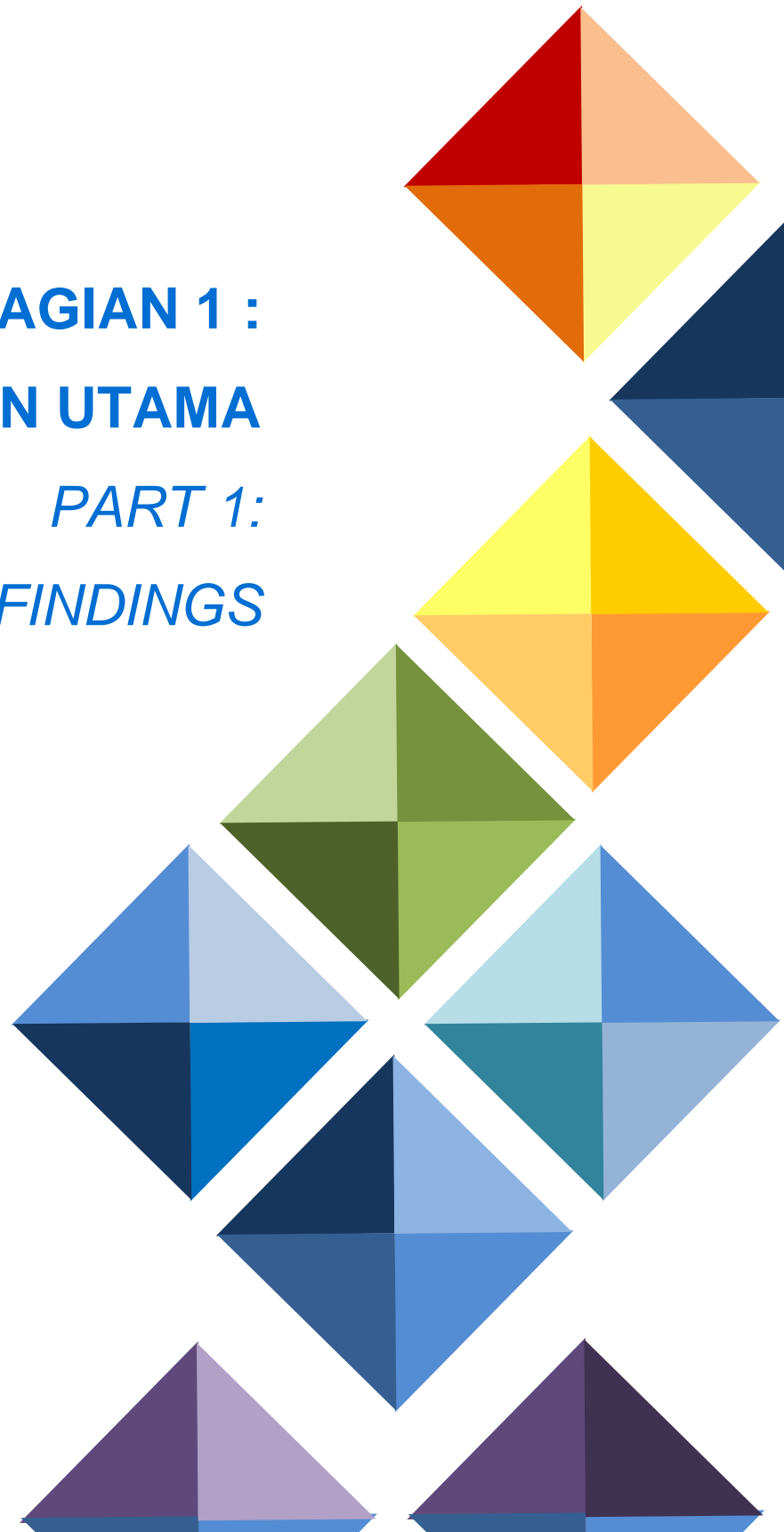
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PART 1:
MAIN FINDINGS



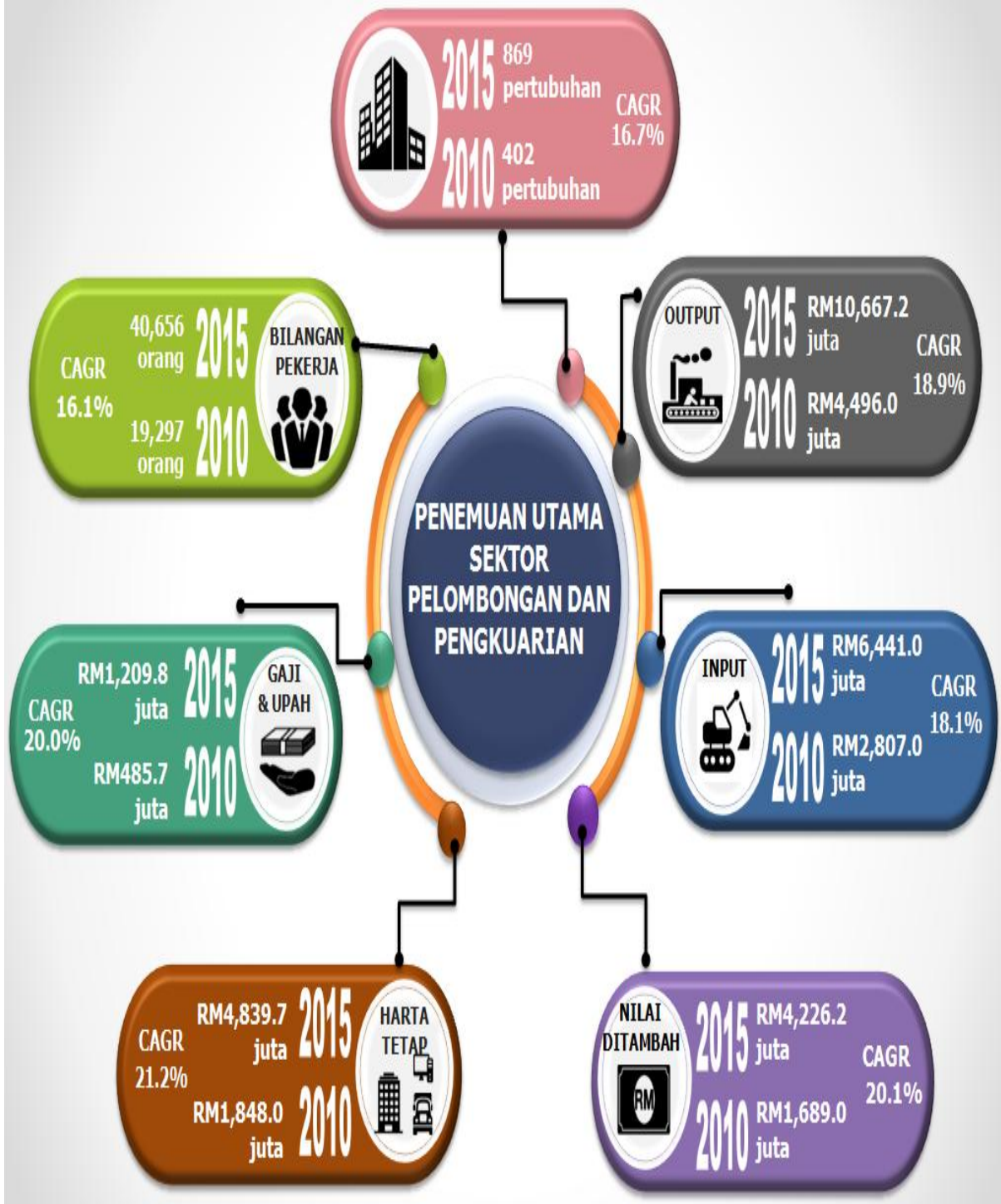
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BANCI EKONOMI 2016



PENEMUAN UTAMA SEKTOR PERLOMBONGAN DAN PENGKUARIAN

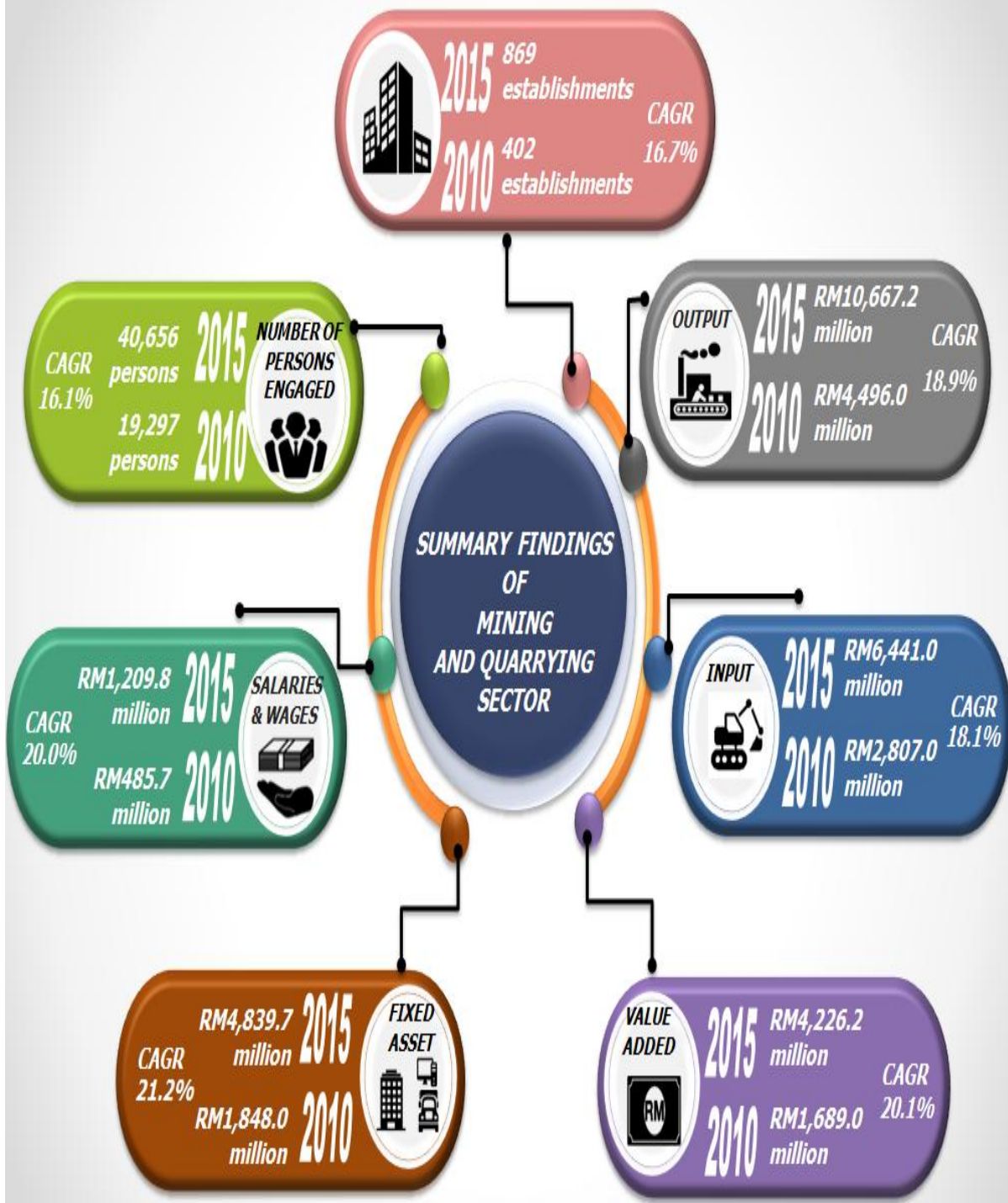




ECONOMIC CENSUS 2016



MAIN FINDINGS OF MINING AND QUARRYING SECTOR



**RINGKASAN PENEMUAN
SEKTOR PERLOMBONGAN
DAN PENGKUARIAN**

*SUMMARY OF FINDINGS
MINING AND QUARRYING
SECTOR*



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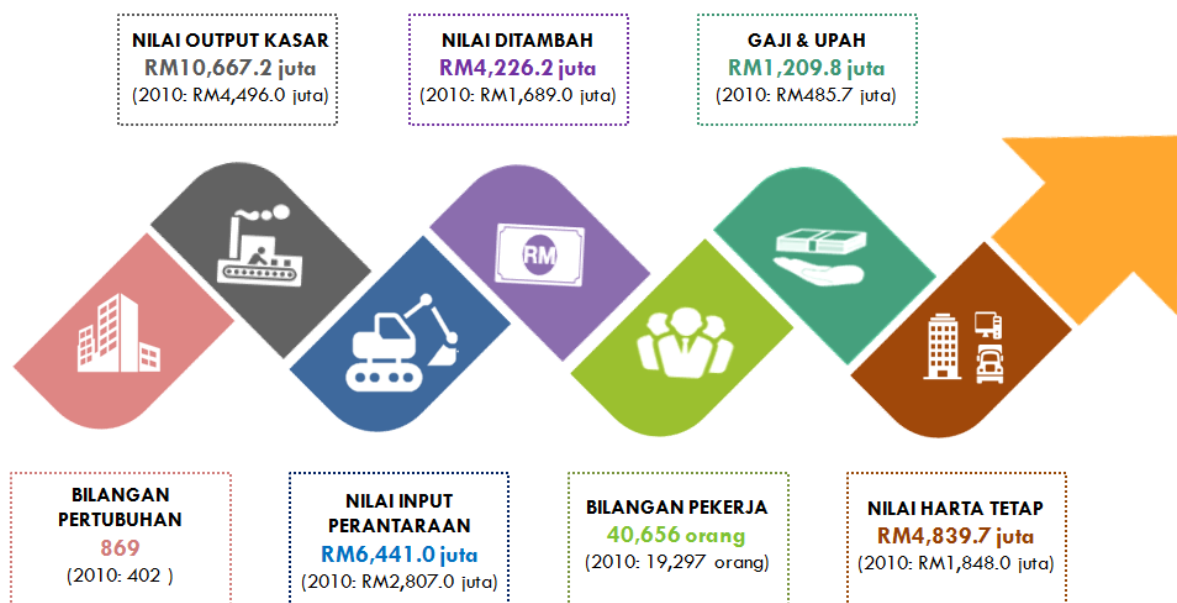
1. PENDAHULUAN

Laporan ini membentangkan perangkaan bagi subsektor perlombongan mineral dan pengkuarian untuk tahun rujukan 2015 berdasarkan kepada Banci Ekonomi 2016. Subsektor perlombongan mineral merujuk kepada perlombongan bauksit, emas, batu arang, bijih besi, bijih timah, ilmenit, pembilasan amang dan perlombongan lain. Manakala subsektor pengkuarian merujuk kepada pengkuarian granit, batu kapur, pengestrakan pasir dan pengkuarian batu lain.

2. PRESTASI SEKTOR PERLOMBONGAN DAN PENGKUARIAN

Secara keseluruhan, sebanyak 869 pertubuhan yang terlibat dalam sektor perlombongan dan pengkuarian pada tahun 2015 berbanding 402 pertubuhan pada tahun 2010. Nilai output kasar bagi sektor ini berjumlah RM10,667.2 juta dengan kadar pertumbuhan tahunan dikompaun (CAGR) sebanyak 18.9 peratus setahun dalam tempoh 2010 dan 2015. Jumlah bilangan pekerja bagi sektor ini turut mencatatkan CAGR sebanyak 16.1 peratus (40,656 orang) dengan gaji & upah sebanyak RM1,209.8 juta (Paparan 1).

Paparan 1 : Prestasi sektor perlombongan dan pengkuarian, 2010 dan 2015

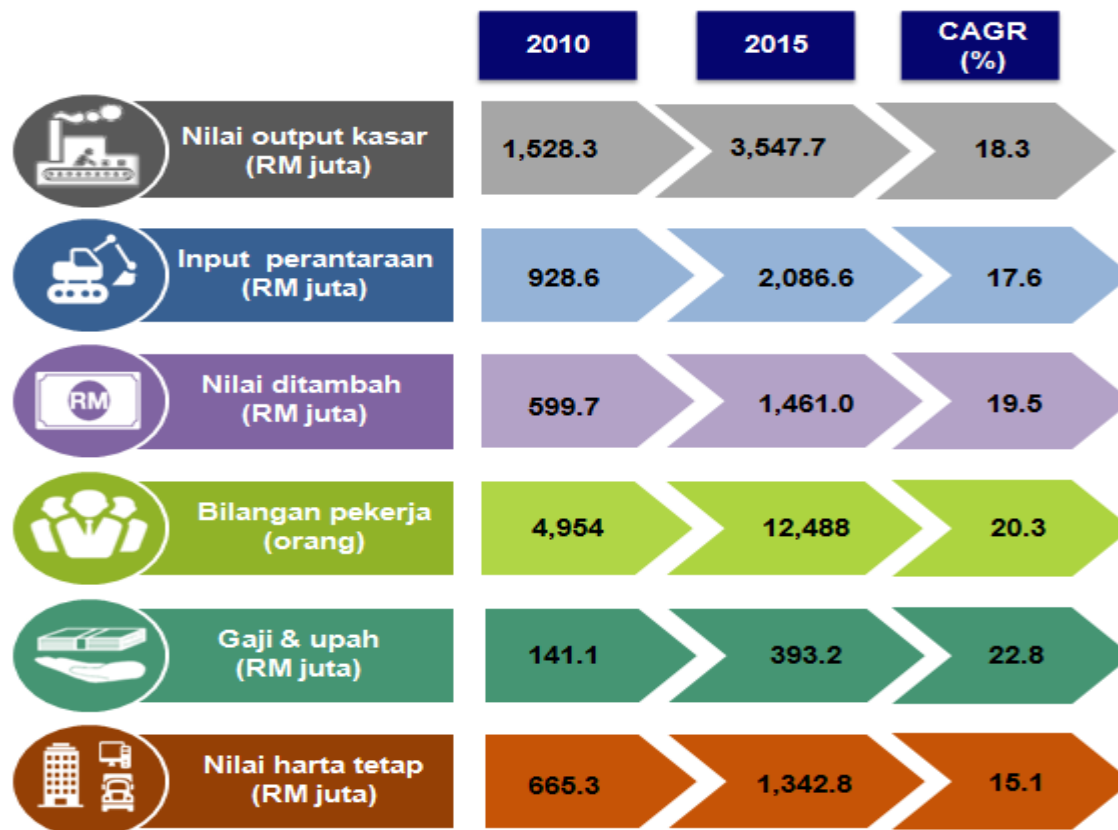


3. PRESTASI SUBSEKTOR PERLOMBONGAN MINERAL

Pertumbuhan kukuh dicatatkan oleh subsektor perlombongan mineral dengan nilai output kasar berkembang daripada RM1,528.3 juta pada tahun 2010 kepada RM3,547.7 juta pada tahun 2015 dengan mencatatkan CAGR sebanyak 18.3 peratus. Nilai input perantaraan mencatatkan RM2,086.6 juta pada tahun 2015 berbanding tahun 2010 dengan CAGR 17.6 peratus. Manakala, nilai ditambah mencatatkan RM1,461 juta pada tahun 2015 berbanding RM599.7 juta pada tahun 2010.

Bilangan pekerja merekodkan seramai 12,488 orang berbanding 4,954 orang pada tahun 2010 dengan CAGR sebanyak 20.3 peratus. Ini menyumbang kepada peningkatan dalam jumlah gaji & upah sebanyak RM252.1 juta, untuk mencatatkan RM393.2 juta pada tahun 2015 berbanding RM141.1 juta pada tahun 2010. Nilai harta tetap dalam subsektor ini turut meningkat dengan merekodkan RM1,342.8 juta pada 2015 daripada RM665.3 juta pada 2010 (Paparan 2).

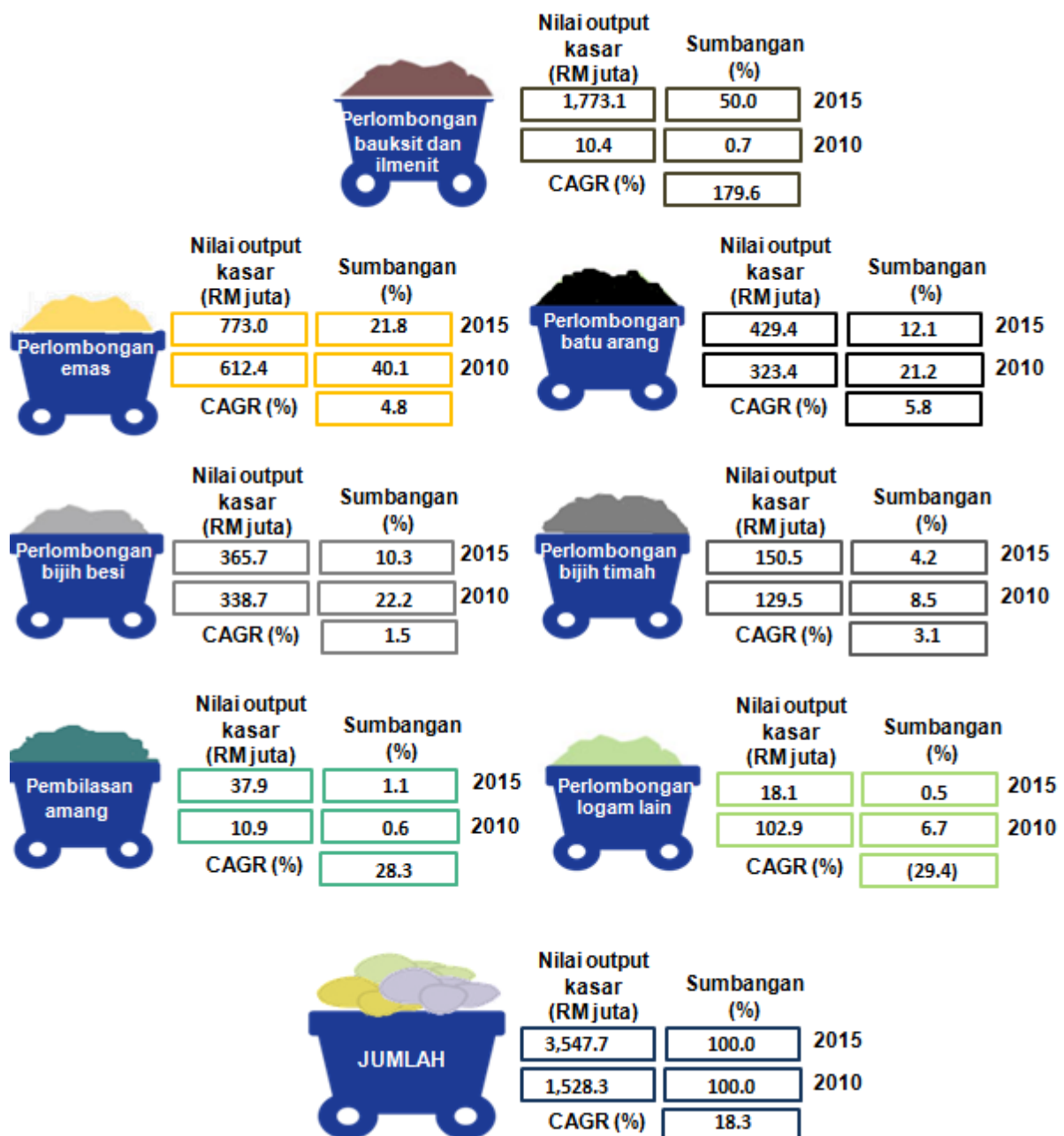
Paparan 2 : Indikator utama subsektor perlombongan mineral, 2010 dan 2015



3.1. Prestasi mengikut industri

Jumlah output kasar subsektor perlombongan mineral mencatatkan RM3,547.7 juta pada tahun 2015 berbanding RM1,528.3 juta pada tahun 2010 dengan CAGR 18.3 peratus dengan enam industri mencatatkan CAGR positif. Perlombongan bauksit dan ilmenit menyumbang nilai output kasar sebanyak RM1,773.1 juta berbanding RM10.4 juta pada 2010 dengan CAGR sebanyak 179.6 peratus seperti di Paparan 3.

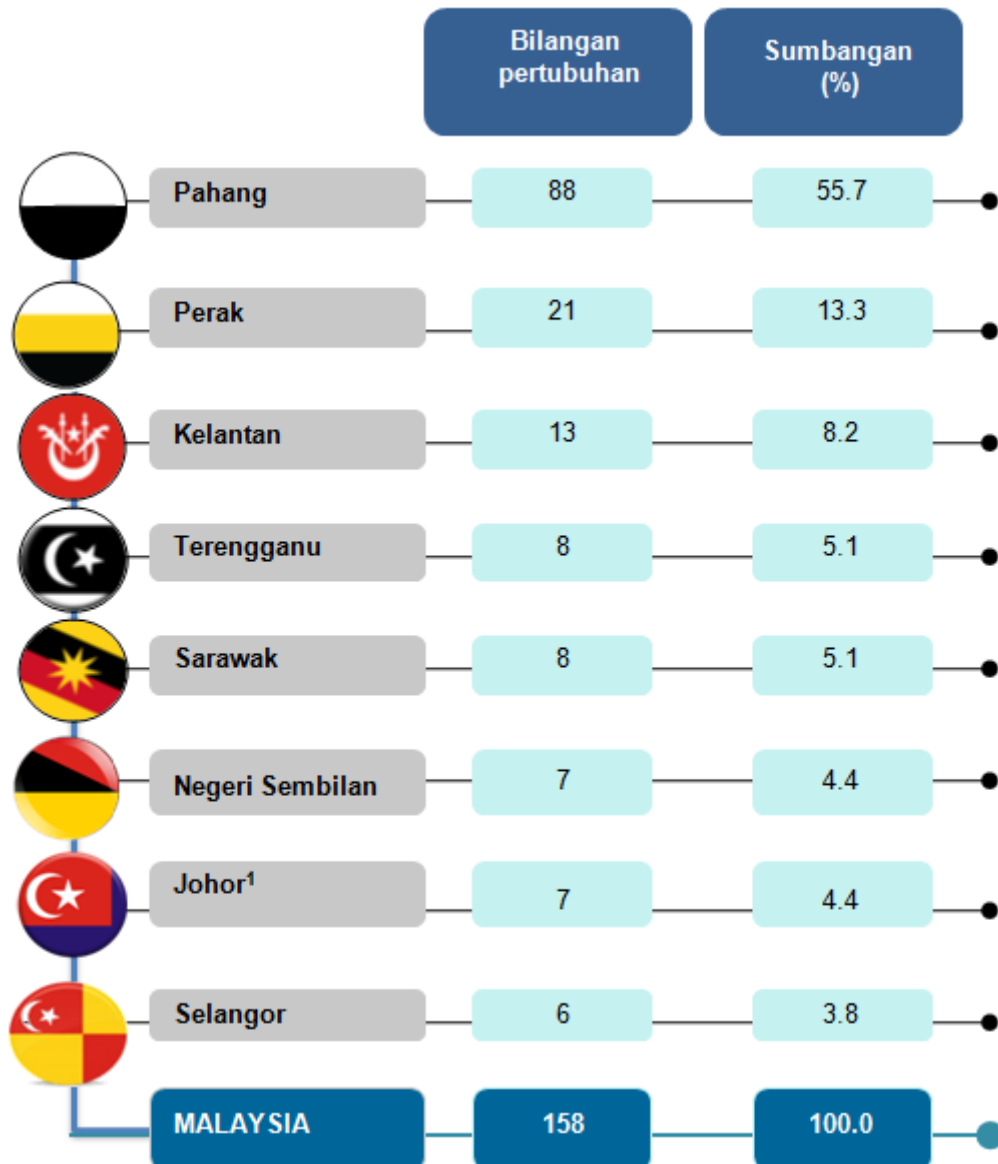
Paparan 3 : Output kasar bagi subsektor perlombongan mineral mengikut jenis industri, 2010 dan 2015



3.2. Bilangan pertubuhan mengikut negeri

Pada tahun 2015, terdapat 158 pertubuhan aktif dalam subsektor perlombongan mineral. Paparan 4 memaparkan negeri Pahang merekodkan bilangan pertubuhan terbesar dengan 55.7 peratus, diikuti oleh Perak (13.3%) dan Kelantan (8.2%) (Paparan 4).

Paparan 4 : Bilangan pertubuhan subsektor perlombongan mineral mengikut negeri, 2015











Nota:
¹ termasuk Kedah

3.3. Bilangan pekerja

3.3.1. Bilangan pekerja mengikut kategori pekerja

Subsektor perlombongan mineral mencatatkan jumlah pekerja bergaji sepenuh masa seramai 12,411 orang pekerja pada tahun 2015. Pekerja operator mesin dan loji dan pemasang membentuk seramai 9,818 orang atau 79.1 peratus daripada jumlah pekerja bergaji sepenuh masa seperti yang dipaparkan di Paparan 5. Ini diikuti oleh 946 orang pekerja asas (7.6%), pengurus; 388 orang (3.1%) dan kategori selebihnya seramai 1,259 orang (10.1%).

Paparan 5 : Bilangan pekerja bagi subsektor perlombongan mineral mengikut kategori pekerja bergaji sepenuh masa, 2015









	Bilangan pekerja (orang)	Sumbangan (%)
 Operator mesin dan loji dan pemasang	9,818	79.1
 Pekerja asas	946	7.6
 Pengurus	388	3.1
 Profesional	382	3.1
 Pekerja sokongan perkeranian	380	3.1
 Juruteknik dan profesional bersekutu	317	2.6
 Pekerja kemahiran dan pekerja pertukangan	124	1.0
 Pekerja perkhidmatan dan jualan	56	0.5
JUMLAH	12,411	100.0

3.3.2. Gaji & upah

Taburan gaji & upah bagi pekerja bergaji sepenuh masa mengikut kategori pekerja dalam subsektor perlombongan mineral pada tahun 2015 dipersembahkan dalam Paparan 6. Pekerja operator mesin dan loji dan pemasang merupakan kategori pekerja terbesar dalam subsektor perlombongan mineral yang menerima gaji & upah tertinggi iaitu sebanyak RM287 juta (73.2%) daripada jumlah gaji & upah yang dibayar.

Purata gaji & upah tahunan tertinggi bagi seorang pekerja diterima oleh kategori pengurus dengan nilai sebanyak RM87,157 setahun. Ini diikuti oleh kategori pekerja profesional (RM64,413) serta juruteknik dan profesional bersekutu (RM46,352).

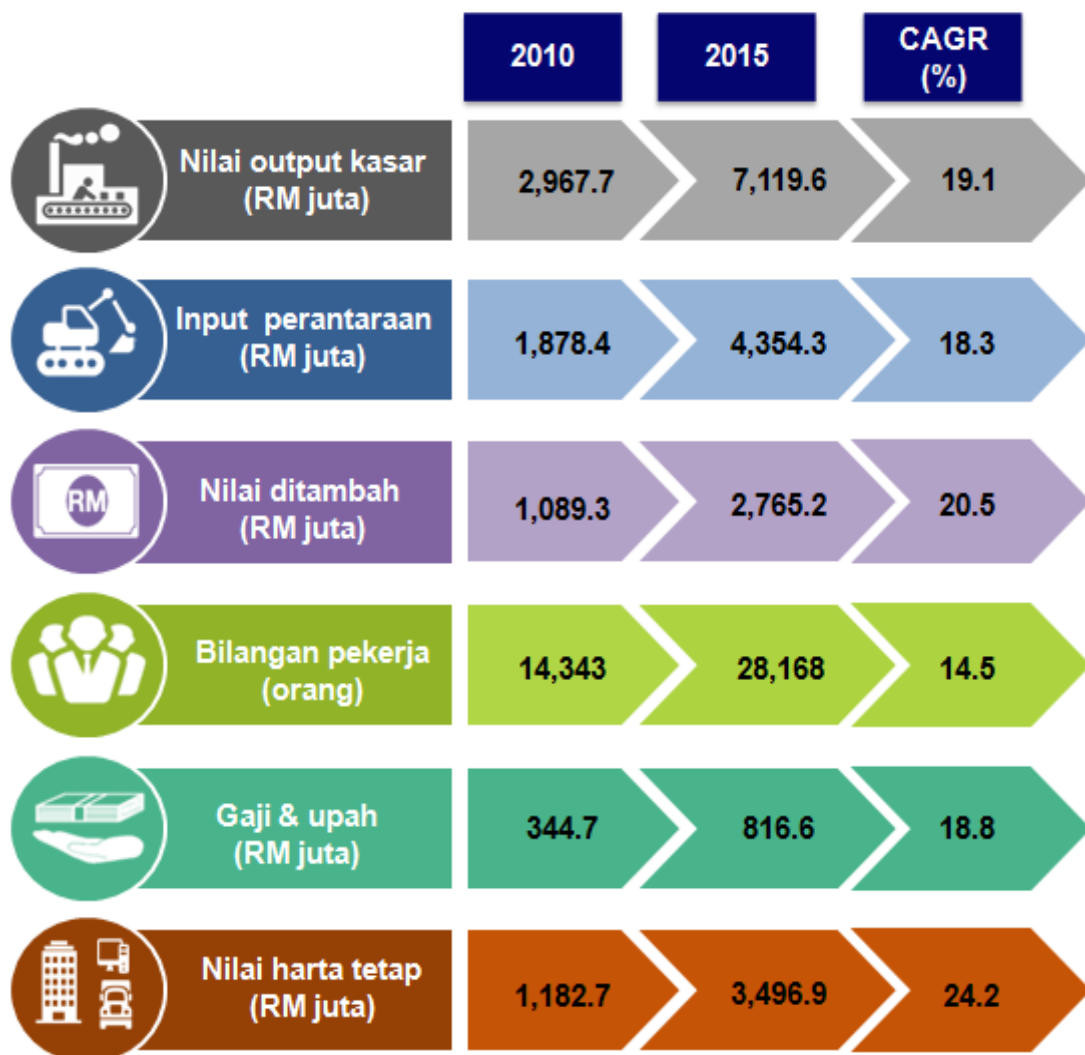
Paparan 6 : Gaji & upah bagi subsektor perlombongan mineral mengikut kategori pekerja bergaji sepenuh masa, 2015

	Gaji & upah (RM juta)	Sumbangan (%)	Purata gaji & upah setahun (RM)
 Operator mesin dan loji dan pemasang	287	73.2	29,189
 Pekerja asas	17	4.4	18,356
 Pengurus	34	8.6	87,157
 Profesional	25	6.3	64,413
 Pekerja sokongan perkeranian	10	2.5	25,278
 Juruteknik dan profesional bersekutu	15	3.8	46,352
 Pekerja kemahiran dan pekerja pertukangan	3	0.8	26,586
 Pekerja perkhidmatan dan jualan	2	0.4	30,931
JUMLAH	393	100.0	31,560

4. PRESTASI SUBSEKTOR PENGKUARIAN

Paparan 7 menunjukkan nilai ditambah bagi subsektor pengkuarian berjumlah RM2,765.2 juta pada tahun 2015 dengan CAGR sebanyak 20.5 peratus. Pertumbuhan ini didorong oleh peningkatan yang tinggi dalam nilai output kasar iaitu sebanyak RM7,119.6 juta dengan CAGR 19.1 peratus pada tahun 2015. Nilai input perantaraan pula mencatatkan RM4,354.3 juta pada tahun 2015 berbanding tahun 2010 dengan CAGR 18.3 peratus setahun.







Paparan 7 : Indikator utama subsektor pengkuarian, 2010 dan 2015



4.1. Prestasi mengikut industri

Pada 2015, nilai output kasar subsektor pengkuarian mencatatkan nilai sebanyak RM7,119.6 juta dengan CAGR sebanyak 19.1 peratus setahun bagi tempoh 2010 dan 2015. Industri pemecahan dan penghancuran batu dan kerikil menyumbang output kasar sebanyak RM2,386.5 juta dengan sumbangan 33.5 peratus. Ini diikuti oleh pengkuarian, penghancuran dan pemecahan granit sebanyak RM1,960.9 juta (27.5%) dan pengekstrakan pasir sebanyak RM846.9 juta (11.9%) seperti di Paparan 8.

Paparan 8 : Nilai output kasar bagi subsektor pengkuarian mengikut jenis industri, 2010 dan 2015

INDUSTRI	Nilai output kasar (RM juta)		Sumbangan (%)		CAGR (%)
	2010	2015	2010	2015	
 Pemecahan dan penghancuran batu dan kerikil	1,078.0	2,386.5	36.3	33.5	17.2
 Pengkuarian, penghancuran dan pemecahan granit	1,009.0	1,960.9	34.0	27.5	14.2
 Pengkuarian, penghancuran dan pemecahan batu kapur	530.3	790.0	17.9	11.1	8.3
 Pengkuarian, pemotongan kasar bongkah batu dan batu bangunan	77.9	507.4	2.6	7.2	45.5
 Pengekstrakan pasir	205.5	846.9	6.9	11.9	32.7
 Pengkuarian, batu lain	67.1	627.8	2.3	8.8	56.4
JUMLAH	2,967.7	7,119.6	100.0	100.0	19.1

4.2. Bilangan pertubuhan mengikut negeri

Negeri Perak mencatatkan nilai pertubuhan yang tertinggi sebanyak 111 pertubuhan dengan sumbangan 15.6 peratus dengan nilai output kasar sebanyak RM899.6 juta, diikuti oleh Johor (14.5%) dan Selangor (11.7 %) daripada 711 pertubuhan aktif dalam subsektor ini. Nilai output kasar tertinggi disumbangkan oleh negeri Johor sebanyak RM1,252.6 juta (Paparan 9).

Paparan 9 : Bilangan pertubuhan subsektor pengkuarian mengikut negeri, 2015











4.3. Bilangan pekerja

4.3.1. Bilangan pekerja mengikut kategori pekerja

Subsektor pengkuarian mencatatkan jumlah pekerja bergaji sepenuh masa seramai 27,767 orang pekerja pada tahun 2015. Pekerja operator mesin dan loji dan pemasang menyumbang seramai 17,623 orang atau 63.5 peratus daripada jumlah pekerja bergaji sepenuh masa seperti yang dipaparkan di Paparan 10. Ianya diikuti oleh kategori pekerja asas seramai 3,033 orang (10.9%), pekerja sokongan dan perkeranian; 2,004 orang (7.2%) dan kategori selebihnya seramai 5,107 orang (18.4 %).

Paparan 10 : Bilangan pekerja bagi subsektor pengkuarian mengikut kategori pekerja bergaji sepenuh masa, 2015.









	Bilangan pekerja (orang)	Sumbangan (%)
 Operator mesin dan loji dan pemasang	17,623	63.5
 Pekerja asas	3,033	10.9
 Pengurus	1,805	6.5
 Profesional	776	2.8
 Pekerja sokongan perkeranian	2,004	7.2
 Juruteknik dan profesional bersekutu	1,245	4.5
 Pekerja kemahiran dan pekerja pertukangan	925	3.3
 Pekerja perkhidmatan dan jualan	356	1.3
JUMLAH	27,767	100.0

4.3.2. Gaji dan upah

Pecahan gaji & upah mengikut kategori pekerja bergaji sepenuh masa dalam subsektor pengkuarian pada tahun 2015 ditunjukkan dalam Paparan 11. Pekerja operator mesin dan loji dan pemasang merupakan kategori pekerja terbesar dalam subsektor pengkuarian yang menerima gaji & upah tertinggi iaitu sebanyak RM395 juta atau 48.5 peratus daripada jumlah gaji & upah yang dibayar.

Purata gaji & upah tahunan per pekerja tertinggi bagi seorang pekerja diterima oleh kategori pengurus dengan nilai sebanyak RM96,826. Ini diikuti oleh kategori pekerja profesional (RM60,391) serta juruteknik dan profesional bersekutu (RM43,968).

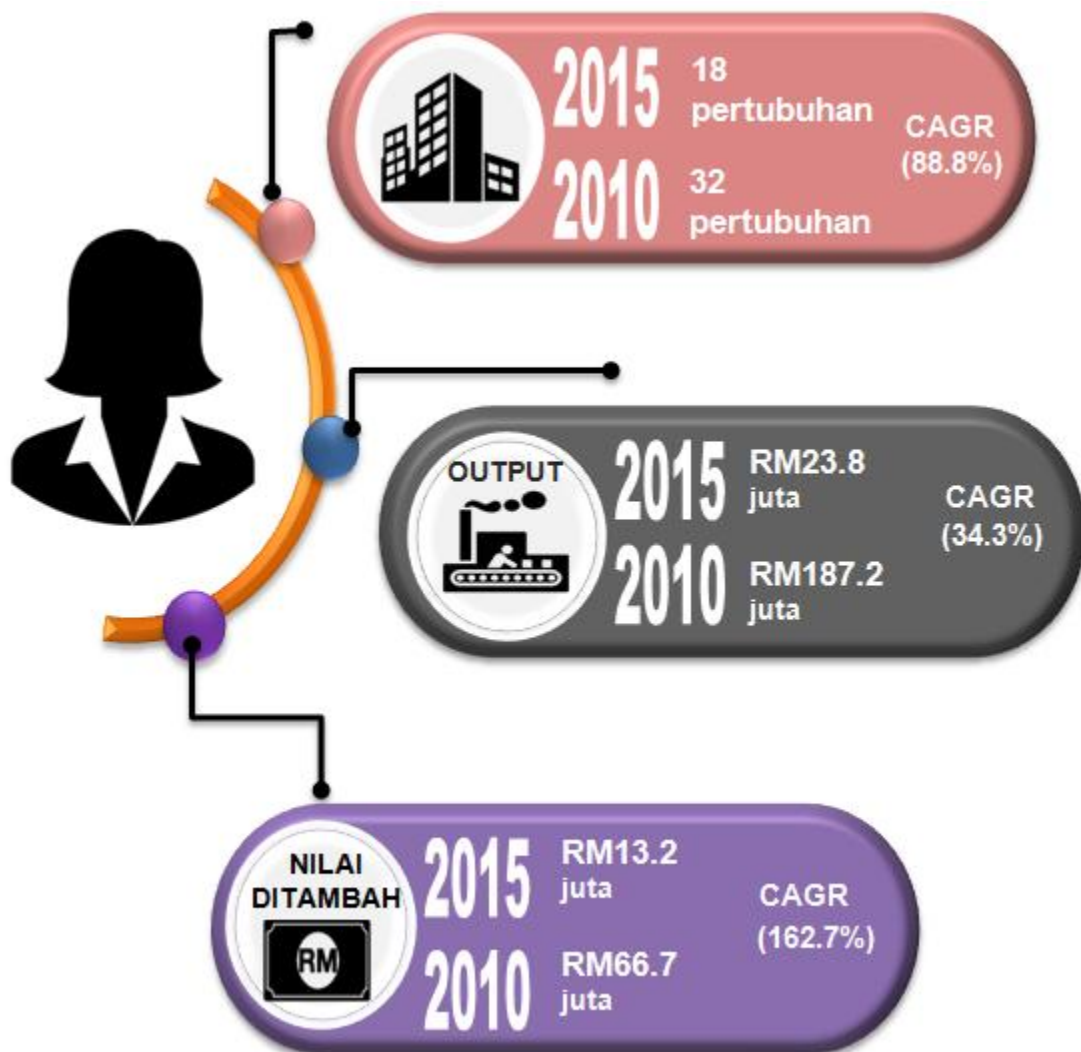
Paparan 11 : Gaji & upah bagi subsektor pengkuarian mengikut kategori pekerja bergaji sepenuh masa, 2015

	Gaji & upah (RM juta)	Sumbangan (%)	Purata gaji & upah setahun (RM)
 Operator mesin dan loji dan pemasang	395	48.5	22,388
 Pekerja asas	52	6.4	17,278
 Pengurus	175	21.5	96,826
 Profesional	47	5.8	60,391
 Pekerja sokongan perkeranian	53	6.5	26,381
 Juruteknik dan profesional bersekutu	55	6.7	43,968
 Pekerja kemahiran dan pekerja pertukangan	26	3.2	28,224
 Pekerja perkhidmatan dan jualan	11	1.4	31,485
JUMLAH	814	100.0	326,941

5. PERTUBUHAN MILIKAN WANITA

Pertubuhan milikan wanita dalam sektor perlombongan dan pengkuarian secara keseluruhannya mencatatkan sebanyak 18 pertubuhan dengan sumbangan 2.1 peratus pada tahun 2015. Pertubuhan ini menyumbang sebanyak RM23.8 juta nilai output kasar dan RM13.2 juta bagi nilai ditambah seperti di Paparan 12.

Paparan 12 : Pertubuhan milikan wanita sektor perlombongan dan pengkuarian, 2010 dan 2015



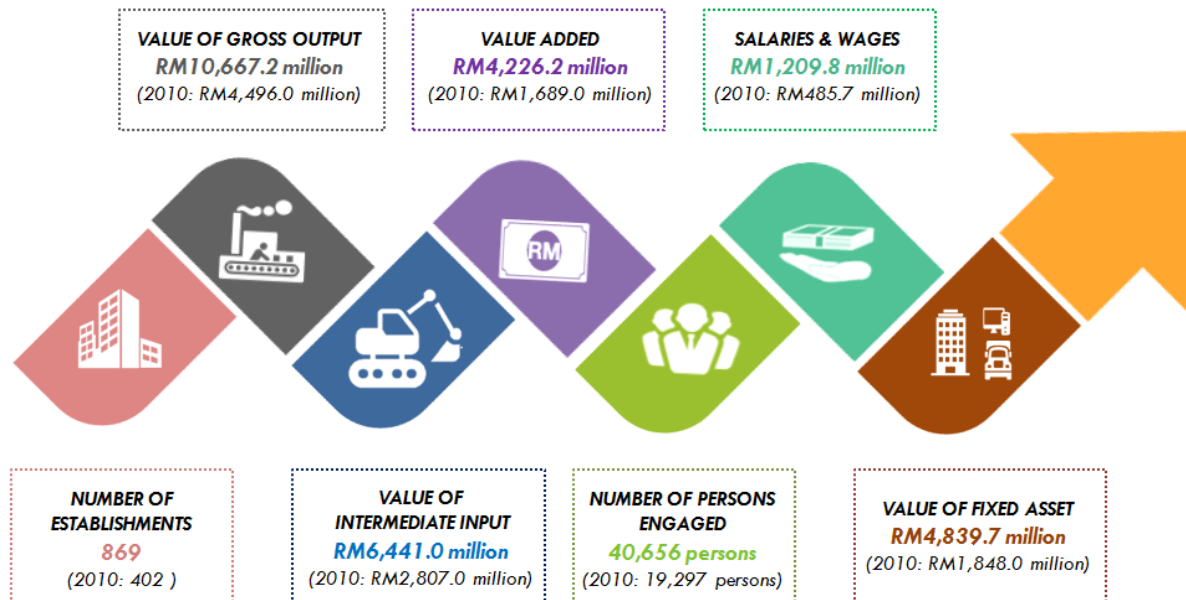
1. INTRODUCTION

This report presents statistics for the mining and quarrying sector for reference year 2015 based on the 2016 Economic Census. The mineral mining sub-sector refers to mining of bauxite, gold, coal, iron ore, tin, ilmenit, among retreatment and other mining. Whilst quarrying sub-sector refers to granite, limestone, sand extraction and other stone quarrying.

2. PERFORMANCE OF MINING AND QUARRYING SECTOR

Overall, 869 establishments were involved in the mining and quarrying sector in 2015 as compared to 402 establishments in 2010. The value of gross output of this sector amounted to RM10,667.2 million with compound annual growth rate (CAGR) of 18.9 per cent per year during 2010 to 2015. The total number of persons engaged in this sector also registered a CAGR of 16.1 per cent (40,656 persons) with salaries & wages of RM1,209.8 million (Exhibit 1).

Exhibit 1 : Performance of mining and quarrying sector, 2010 and 2015

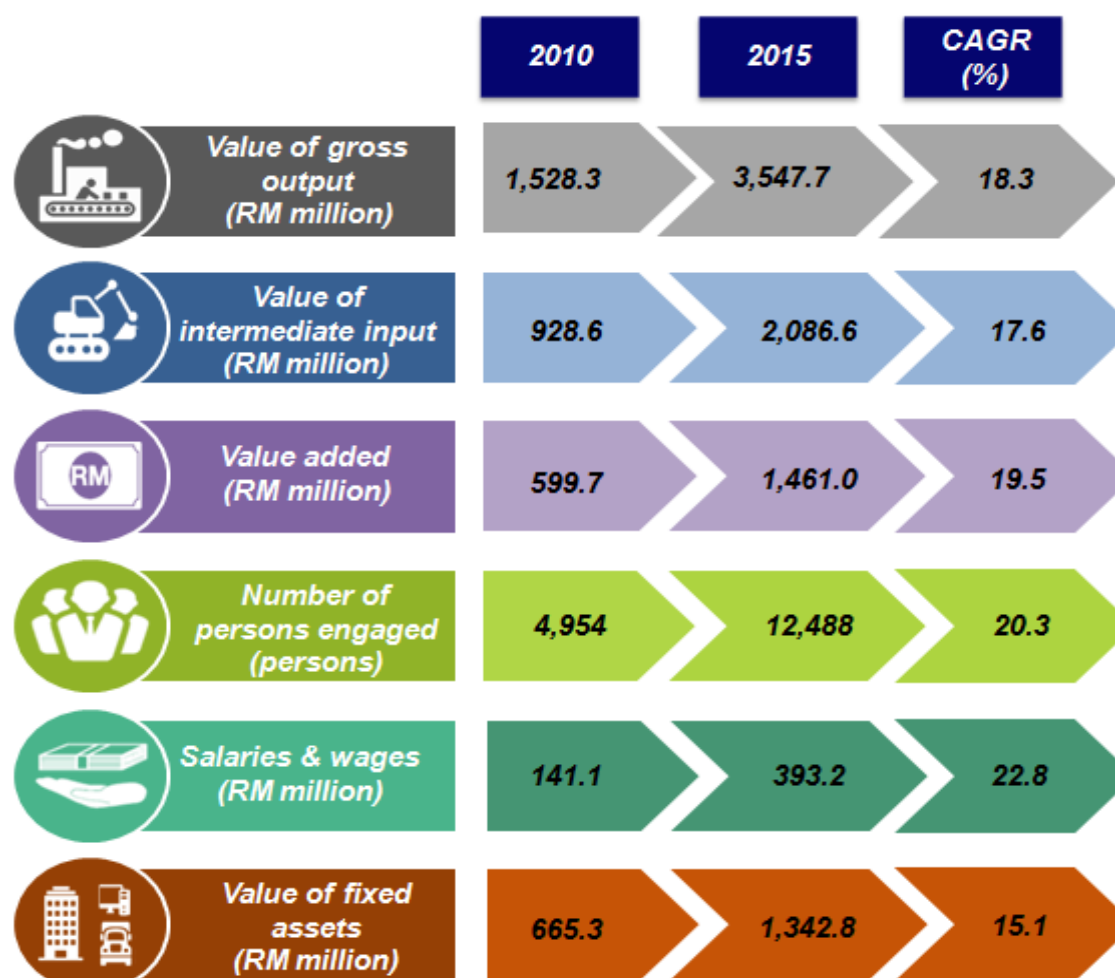


3. PERFORMANCE OF MINERAL MINING SUB-SECTOR

Vibrant growth was recorded in the mineral mining sub-sector with gross output augmented from RM1,528.3 million in 2010 to RM3,547.7 million in 2015, registering a CAGR of 18.3 per cent per year. The intermediate input value recorded RM2,086.6 million in 2015 as compared to 2010 with CAGR of 17.6 per cent. Meanwhile, value added recorded RM1,461 million in 2015 as compared to RM599.7 million in 2010.

The number of persons engaged recorded a total of 12,488 persons as compared to 4,954 persons in 2010 with CAGR of 20.3 per cent. This contributed to an increase in salaries & wages of RM252.1 million, registering RM393.2 million in 2015 as compared to RM141.1 million in 2010. The value of fixed assets in the sub-sector also increased by recording RM1,342.8 million in 2015 from RM665.3 million in 2010 (Exhibit 2).

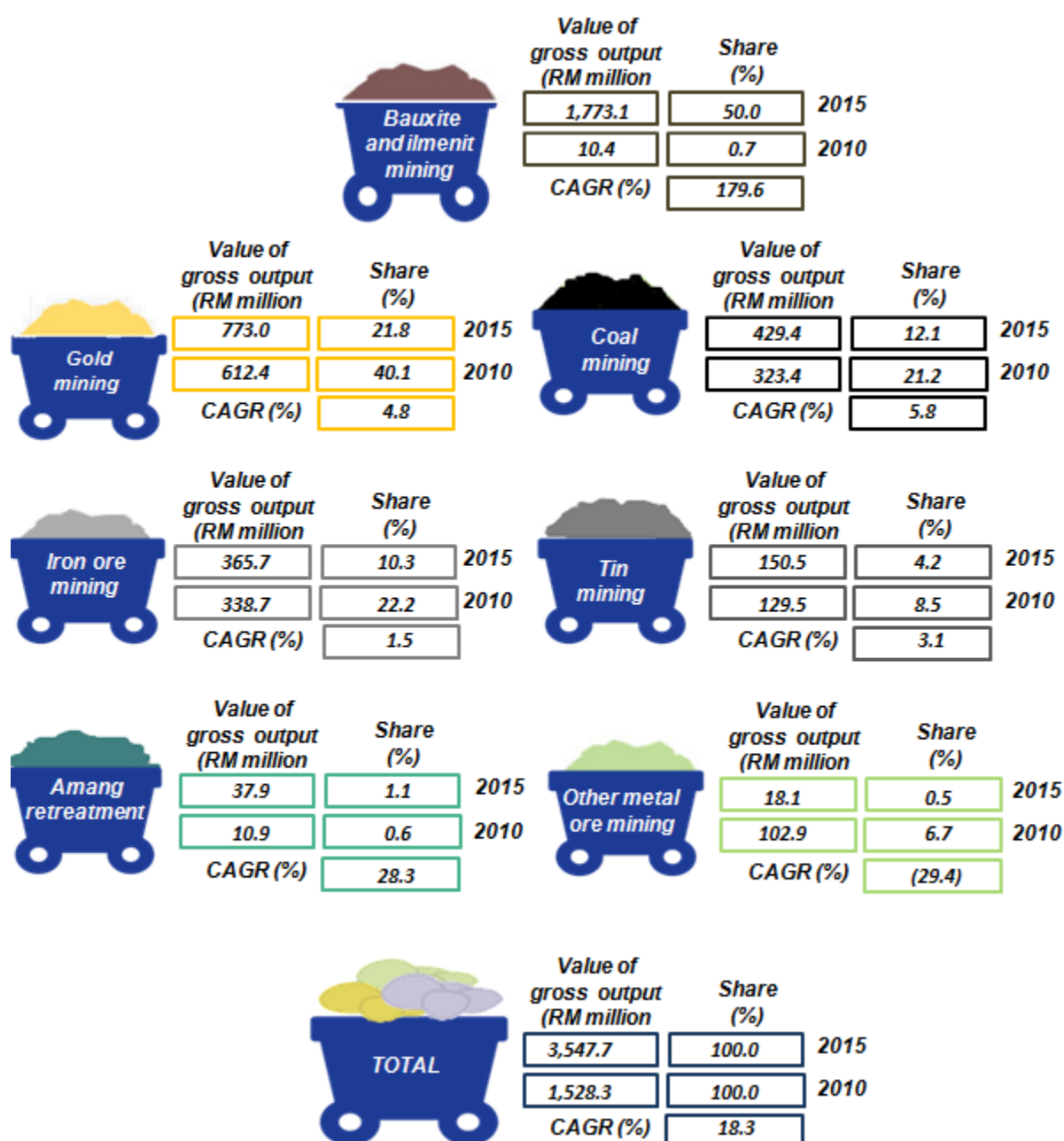
Exhibit 2 : Key indicators of the mineral mining sub-sector, 2010 and 2015



3.1. Performance by industry

The value of gross output of the mineral mining sub-sector registered RM3,547.7 million in 2015 as compared to RM1,528.3 million in 2010 with CAGR of 18.3 per cent with six industries registering positive growth. Bauxite and ilmenite mining contributed a gross output value of RM1,773.1 million compared to RM10.4 million in 2010 with a CAGR of 179.6 per cent as shown in Exhibit 3.

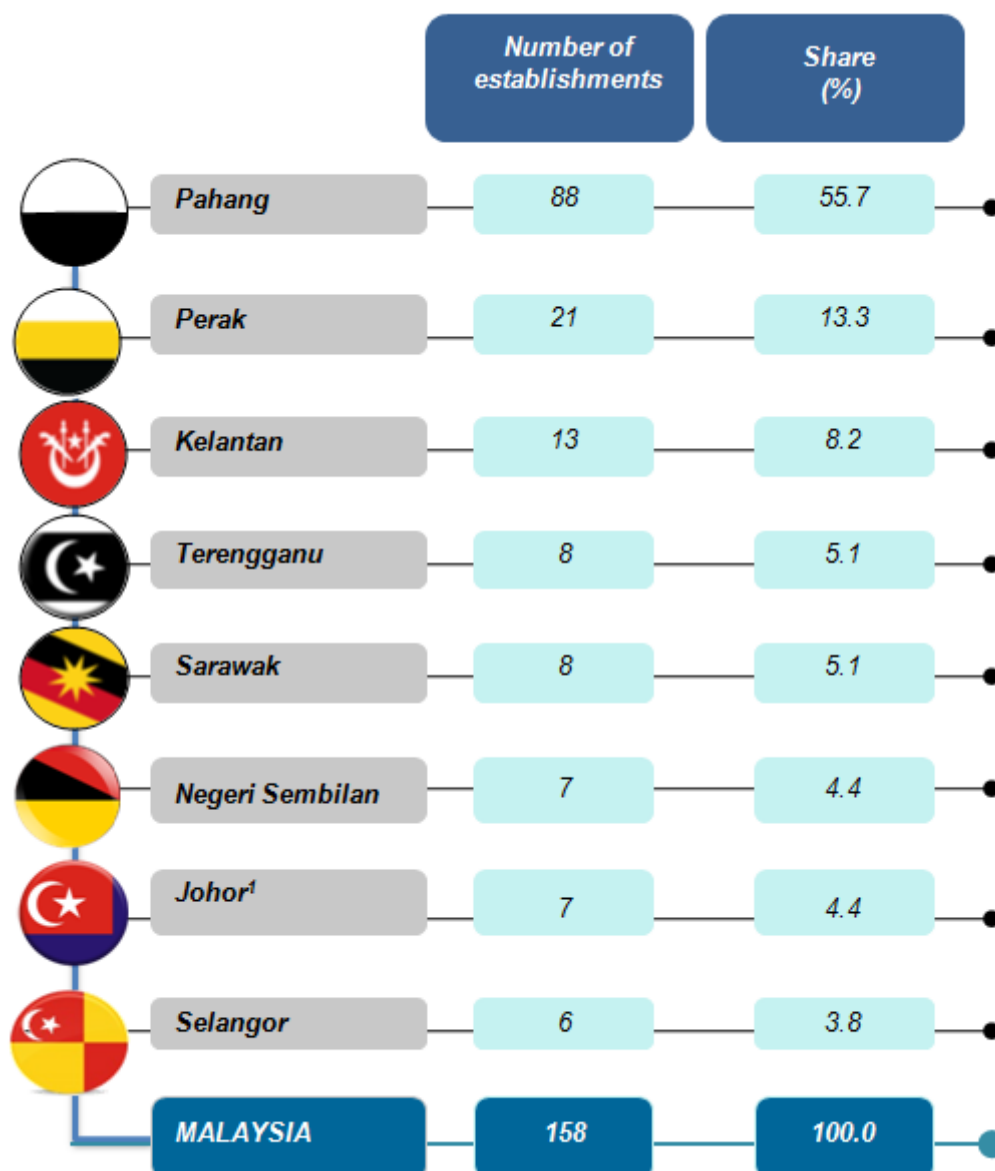
Exhibit 3 : Value of gross output of mineral mining sub-sector by types of industry, 2010 and 2015



3.2. Number of establishments by state

In 2015, there were 158 active establishments in the mineral mining sub-sector. Exhibit 4 depicts that Pahang recorded the largest number of establishments with 55.7 per cent, followed by Perak (13.3%) and Kelantan (8.2%) (Exhibit 4).

Exhibit 4 : Number of establishment of mineral mining sub-sector by state, 2015











Note:
¹ includes Kedah

3.3. Number of persons engaged

3.3.1. Number of persons engaged by category of workers

The mineral mining sub-sector registered a total number of full-time paid employees of 12,411 persons in 2015. Plant and machine operators and assemblers workers constituted 9,818 persons or 79.1 per cent of full-time paid employee workers as shown in Exhibit 5. This was followed by elementary occupations workers category of 946 persons (7.6%), managers; 388 persons (3.1%) and remaining category accounted to 1,259 persons (10.1%).

Exhibit 5 : Number of persons engaged of mineral mining sub-sector by category of full-time paid employees, 2015









	Number of persons engaged (persons)	Share (%)
 Plant and machine operators and assemblers	9,818	79.1
 Elementary occupations	946	7.6
 Managers	388	3.1
 Professionals	382	3.1
 Clerical support workers	380	3.1
 Technicians and associate professionals	317	2.6
 Craft and related trades workers	124	1.0
 Services and sales workers	56	0.5
TOTAL	12,411	100.0

3.3.2. Salaries & wages paid

The distribution of salaries & wages of full-time paid employees by category of workers in the mineral mining sub-sector for 2015 were presented in Exhibit 6. Plant and machine operators and assemblers workers was the largest category of workers in the mineral mining sub-sector receiving the highest salaries & wages of RM287.0 million (73.2%) from the total salaries & wages paid.

The highest average annual salary per worker was received by the manager category with a value of RM87,157 per year. This was followed by professionals (RM64,413) and technicians & associate professionals (RM46,352).

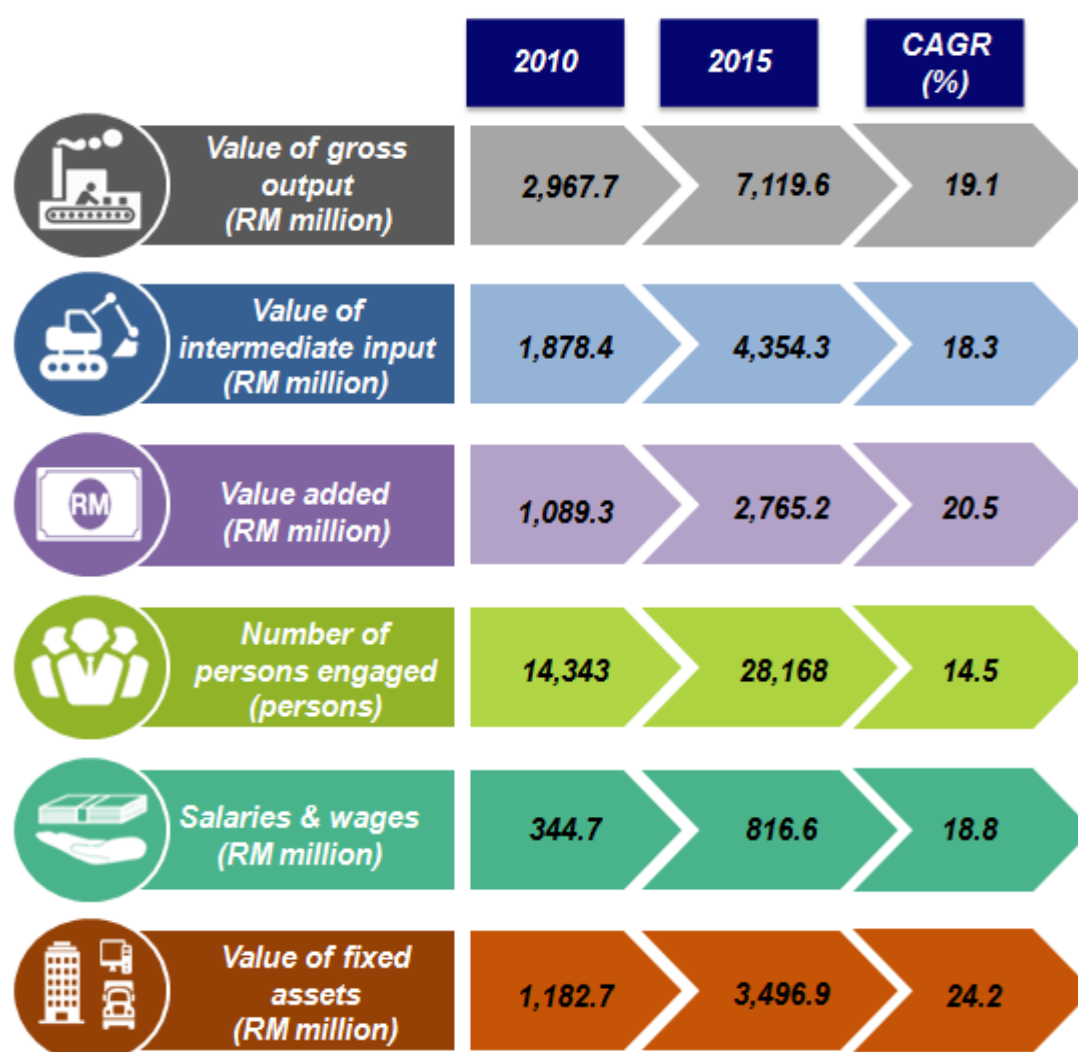
Exhibit 6 : Salaries & wages of mineral mining sub-sector of full-time paid employees by category of workers, 2015

	Salaries & wages (RM million)	Share (%)	Average salaries & wages per year (RM)
 Plant and machine operators and assemblers	287	73.2	29,189
 Elementary occupations	17	4.4	18,356
 Managers	34	8.6	87,157
 Professionals	25	6.3	64,413
 Clerical support workers	10	2.5	25,278
 Technicians and associate professionals	15	3.8	46,352
 Craft and related trades workers	3	0.8	26,586
 Services and sales workers	2	0.4	30,931
TOTAL	393	100.0	31,560

4. PERFORMANCE OF QUARRYING SUB-SECTOR

Exhibit 7 shows the value added for the quarrying sub-sector amounting to RM2,765.2 million in 2015 with CAGR of 20.5 per cent. This growth was driven by a high increase in the value of gross output amounted to RM7,119.6 million with a CAGR of 19.1 per cent in 2015. The intermediate input value recorded RM4,354.3 million in 2015 as compared to 2010 with CAGR of 18.3 per cent per year.







Exhibit 7 : Key indicators of the quarrying sub-sector, 2010 and 2015



4.1. Performance by industry

In 2015, the value of gross output of the quarrying sub-sector recorded a value of RM7,119.6 million with CAGR of 19.1 per cent per year during 2010 and 2015. The breaking and crushing of stone and gravel industry contributed a gross output value of RM2,386.5 million with a 33.5 per cent contribution. This was followed by quarrying, crushing and breaking of granite of RM1,960.9 million (27.5%) and sand extraction of RM846.9 million (11.9%) as shown in Exhibit 8.

Exhibit 8 : Value of gross output of quarrying sub-sector by industry, 2010 and 2015

INDUSTRY	Value of gross output (RM million)		Share (%)		CAGR (%)
	2010	2015	2010	2015	
 Breaking and crushing of stone and gravel	1,078.0	2,386.5	36.3	33.5	17.2
 Quarrying, crushing and breaking of granite	1,009.0	1,960.9	34.0	27.5	14.2
 Quarrying, crushing and breaking of limestone	530.3	790.0	17.9	11.1	8.3
 Quarrying, rough trimming and sawing of monumental and building stone	77.9	507.4	2.6	7.2	45.5
 Sand extraction	205.5	846.9	6.9	11.9	32.7
 Others quarrying stone	67.1	627.8	2.3	8.8	56.4
TOTAL	2,967.7	7,119.6	100.0	100.0	19.1

4.2. Number of establishments by state

The state of Perak recorded the highest number of establishments of 111 establishments with contribution of 15.6 per cent with the value of gross output of RM899.6 million, followed by Johor (14.5%) and Selangor (11.7%) from a total of 711 active establishments in this sub-sector. The highest output value was contributed by Johor with RM1,252.6 million (Exhibit 9).

Exhibit 9 : Number establishment of quarrying sub-sector by state, 2015











4.3. Number of persons engaged

4.3.1. Number of persons engaged by category of workers

The quarrying sub-sector registered a total number of full-time paid employees of 27,767 persons in 2015. Plant and machine operators and assemblers workers constituted 17,623 people or 63.5 per cent of full-time paid employee workers as shown in Exhibit 10. This was followed by elementary occupations workers category of 3,033 persons (10.9%), clerical support workers; 2,004 persons (7.2%) and remaining category accounted to 5,107 persons (18.4%).

Exhibit 10 : Number of persons engaged of quarrying sub-sector by full-time paid employees by category of workers, 2015









	Number of persons engaged (persons)	Share (%)
 Plant and machine operators and assemblers	17,623	63.5
 Elementary occupations	3,033	10.9
 Managers	1,805	6.5
 Professionals	776	2.8
 Clerical support workers	2,004	7.2
 Technicians and associate professionals	1,245	4.5
 Craft and related trades workers	925	3.3
 Services and sales workers	356	1.3
TOTAL	27,767	100.0

4.3.2. Salaries & wages paid

The distribution of salaries & wages of full-time paid employees by category of workers in the quarrying sub-sector for 2015 were presented in Exhibit 11. Plant and machine operators and assemblers workers was the largest category of workers in the quarrying sub-sector receiving the highest salaries & wages of RM395 million or 48.5 per cent from the total salaries & wages paid.

The highest average annual salary per worker was received by the manager category with a value of RM96,826 per year. This was followed by professionals (RM60,391) and technicians & associate professionals (RM43,968).

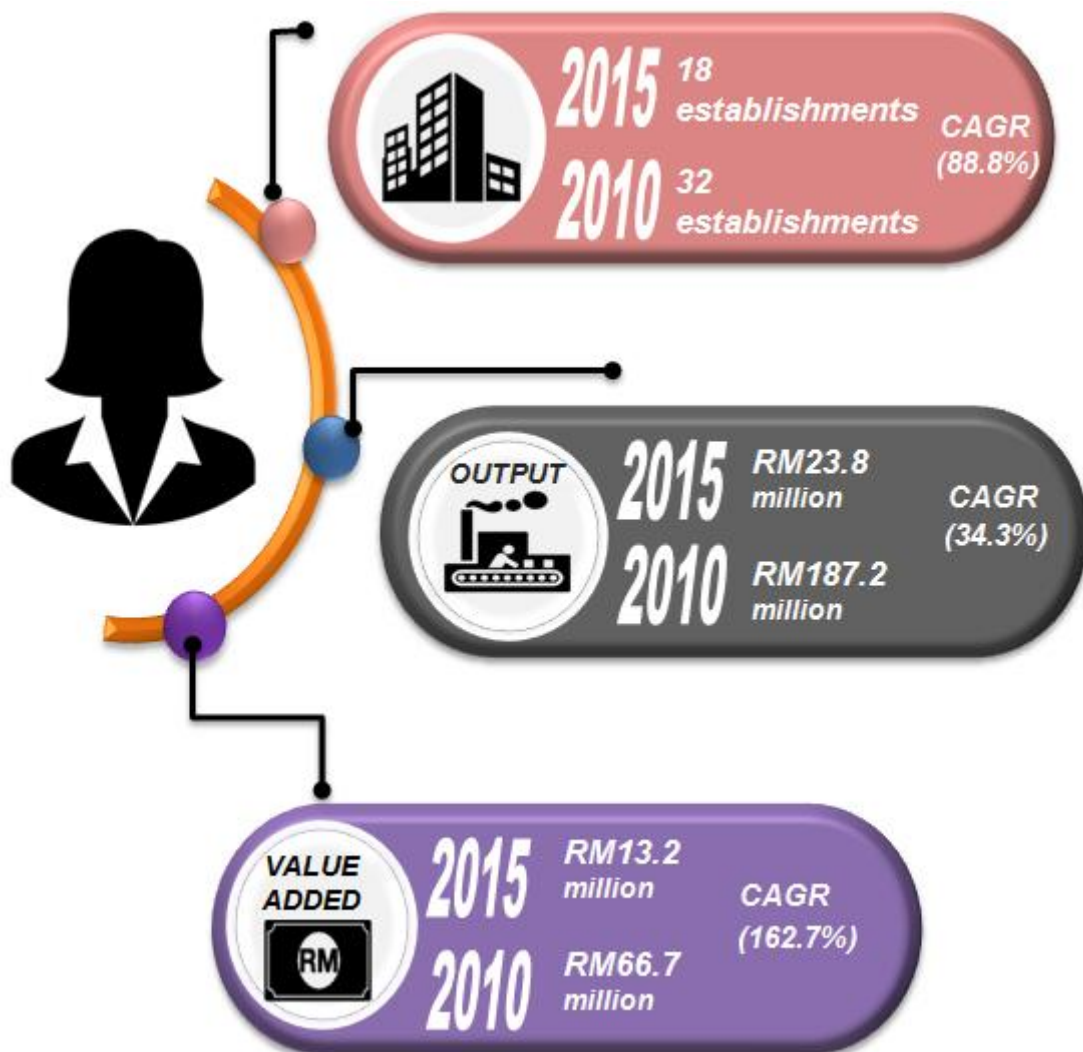
Exhibit 11 : Salaries & wages of quarrying sub-sector of full-time paid employees by category of workers, 2015

	Salaries & wages (RM million)	Share (%)	Average salaries & wages per year (RM)
 Plant and machine operators and assemblers	395	48.5	22,388
 Elementary occupations	52	6.4	17,278
 Managers	175	21.5	96,826
 Professionals	47	5.8	60,391
 Clerical support workers	53	6.5	26,381
 Technicians and associate professionals	55	6.7	43,968
 Craft and related trades workers	26	3.2	28,224
 Services and sales workers	11	1.4	31,485
TOTAL	814	100.0	326,941

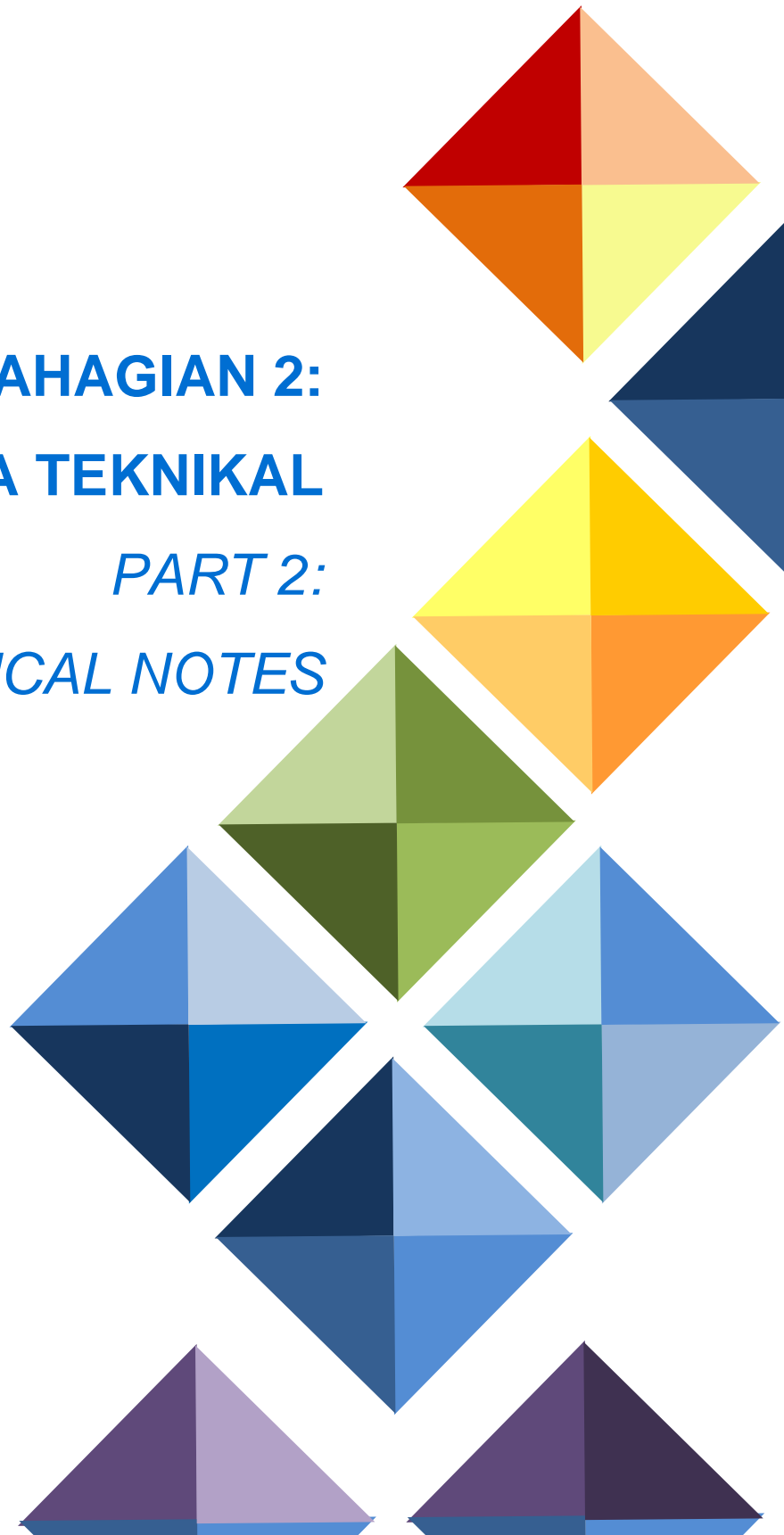
5. WOMEN-OWNED ESTABLISHMENTS

The women-owned establishment in the mining and quarrying sector as a whole recorded 18 establishments with a contribution of 2.1 per cent in 2015. These establishments contributed RM23.8 million value of gross output and RM13.2 million for value added as shown in Exhibit 12.

**Exhibit 12 : Women-owned establishments in mining and quarrying sector
2010 and 2015**



BAHAGIAN 2:
NOTA TEKNIKAL
PART 2:
TECHNICAL NOTES



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1. **Skop dan liputan** Banci ini meliputi semua pertubuhan yang menjalankan aktiviti perlombongan dan / atau pengkuarian. Sebanyak 27 industri diliputi berdasarkan kategori yang dikelaskan di bawah Seksyen B (Perlombongan & Pengkuarian) di dalam Piawaian Klasifikasi Industri Malaysia (MSIC) 2008.
2. **Sumber rangka** Sumber utama rangka bagi banci ini ialah syarikat yang berdaftar dengan Suruhanjaya Syarikat Malaysia (SSM), Jabatan Mineral & Geosains Malaysia (JMG) dan agensi lain yang berkaitan.
3. **Jenis aktiviti perniagaan** Jenis aktiviti perniagaan merujuk kepada aktiviti utama dan sekunder. Aktiviti utama merujuk kepada aktiviti yang mana pertubuhan menggunakan sebahagian besar daripada sumbernya atau yang ia memperoleh sebahagian besar daripada pendapatannya. Aktiviti sekunder didefinisikan sebagai aktiviti sampingan kepada aktiviti utamanya berdasarkan kepada Piawaian Klasifikasi Industri Malaysia (MSIC), 2008 Versi 1.0.
4. **Konsep dan definisi** Konsep dan definisi yang digunakan selari dengan *International Recommendations for Industrial Statistics, United Nations' Statistical Office*¹. Takrif perlombongan dan pengkuarian yang digunakan dalam banci ini adalah selaras dengan Piawaian Klasifikasi Industri Malaysia (MSIC) 2008 Versi 1.0.

“Perlombongan adalah ditakrifkan sebagai pengekstrakan, pembersihan dan pemanfaatan mineral-mineral semulajadi, berbentuk pepejal seperti batu arang dan bijih, cecair seperti minyak mentah dan berbentuk gas seperti gas asli. Perlombongan termasuk lombong bawah tanah dan lombong permukaan, kuari dan telaga-telaga dan semua kegiatan tambahan untuk pembersihan dan pemanfaatan bijih dan mineral-mentah lain seperti pemecahan, penapisan, pembasuhan, pembersihan, penggredan, pengilangan, pengapungan, peleburan, penggentelan, pengkacipan dan

persiapan-persiapan lain yang diperlukan bagi menyediakan bahan-bahan ini untuk membolehkannya dipasarkan. Aktiviti perlombongan juga dikelaskan kepada kumpulan-kumpulan berdasarkan mineral utama yang dikeluarkan”.

“Pengkuarian merujuk kepada aktiviti pengekstrakan dari lombong atau kuari dan penggorekan mendapan lanar (aluvium), pemecahan batu dan penggunaan garam paya. Produk ini digunakan dengan meluas dalam sektor pembinaan (cth. pasir, batu, dll.), pembuatan bahan mentah (cth. tanah liat, gipsum, kalsium, dll.), pembuatan bahan kimia, dll.

la termasuk pengkuarian, pemotongan kasar bongkah batu dan batu bangunan seperti marmar, granit, batu pasir, dll, pengkuarian, pemecahan dan pemotongan batu kapur, perlombongan gipsum dan anhidrit, perlombongan kapur dan dolomit, pengekstrakan dan penggorekan pasir industri, pasir untuk pembinaan dan kerikil, memecah dan menghancurkan batu dan kerikil, pengkuarian pasir dan perlombongan tanah liat, refraktori tanah liat dan kaolin.

la juga termasuk perlombongan mineral kimia dan baja, pengekstrakan tanah gambut, pengekstrakan garam, dan dll.”

5. Unit melapor

Unit melapor bagi penyiasatan ini ialah pertubuhan. Sesebuah pertubuhan ditakrifkan sebagai “satu unit ekonomi yang bergiat di bawah satu hak milik atau penguasaan tunggal, iaitu di bawah satu entiti yang sah. Ia menjalankan satu jenis aktiviti ekonomi utama di satu tempat/lokasi fizikal”. Setiap pertubuhan diberikan klasifikasi industri berdasarkan aktiviti utamanya. Bagi pertubuhan yang menjalankan pelbagai aktiviti, unit yang bergiat dalam aktiviti yang berasingan dalam satu lokasi yang sama terdiri daripada entiti pertubuhan yang berbeza. Oleh itu, setiap cawangan daripada organisasi yang mempunyai pelbagai cawangan di lokasi yang berbeza dari segi konsep dianggap

sebagai pertubuhan yang berlainan. Pertubuhan berkenaan diminta memberikan penyata yang berasingan bagi setiap kegiatannya dari segi nilai. Walau bagaimanapun, dari segi praktisnya akaun biasanya disediakan secara berpusat kerana kesukaran untuk memperoleh data yang berasingan bagi setiap unit atau cawangan.

6. Nilai output kasar

Nilai output kasar ditakrifkan dengan memasukkan perkara berikut:

Nilai jualan mineral / produk kuari

- + Nilai barang yang dijual dalam keadaan yang sama seperti dibeli;
- Kos barang yang dijual dalam keadaan yang sama seperti dibeli;
- + Perbelanjaan modal ke atas binaan sendiri;
- + Pendapatan daripada perkhidmatan perindustrian yang diberi kepada orang lain;
- + Pendapatan daripada kerja perindustrian lain (misalnya, pembinaan, kuari, dll.);
- + Penerimaan bayaran daripada skrap, tenaga elektrik, produk sisa, dll. yang dijual kepada orang lain;
- + Penerimaan komisen dan brokeraj;
- + Semua nilai output lain (seperti penerimaan perkhidmatan bukan perindustrian, misalnya, bayaran pengurusan, sewa harta, dll.);
- + Stok akhir barang siap (pembuatan sendiri);
- Stok awal barang siap (pembuatan sendiri);
- + Stok akhir barang dalam proses;
- Stok awal barang dalam proses; dan
- + Perbelanjaan penyelidikan dan pembangunan (Dalaman);

7. Nilai input perantaraan

Nilai input perantaraan ditakrifkan dengan memasukkan perkara berikut:

Nilai bahan dan bekalan yang digunakan

- + Kos kerja perindustrian (memproses) yang dibuat oleh orang lain termasuk pemindahan tanah permukaan dan pengangkutan dalaman kawasan lombong / kuari;
- + Tenaga elektrik dan air yang dibeli;
- + Nilai bahan pembakar, pelincir dan gas yang digunakan;
- + Kos bahan yang digunakan bagi pembaikan dan penyelenggaraan harta tetap (termasuk pembayaran kepada pihak lain ke atas kerja ini);
- + Pembayaran terhadap perkhidmatan bukan perindustrian (termasuk bayaran bagi pengangkutan keluar barang, perjalanan, pengurusan, perundangan, teknologi maklumat, pengiklanan, bank, pos, telekomunikasi, dll.);
- + Semua kos input lain (termasuk kos latihan dan nilai pakaian percuma yang disediakan kepada pekerja);
- + Stok awal bahan mentah; dan
- Stok akhir bahan mentah;

8. Nilai ditambah

Nilai ditambah ialah tambahan kepada nilai komoditi dan perkhidmatan yang disumbangkan oleh sesebuah pertubuhan pembinaan dan ia diperolehi daripada perbezaan nilai output kasar dengan nilai input perantaraan.

9. Bilangan pekerja

Bilangan pekerja dalam sesebuah pertubuhan ditakrifkan sebagai jumlah bilangan orang yang diambil bekerja pada bulan Disember atau pada tempoh pembayaran gaji terakhir bagi tahun rujukan. Bilangan orang yang bekerja termasuk semua pemilik yang bekerja dan rakan niaga yang aktif, pekerja keluarga tidak bergaji dan pekerja bergaji seperti yang dijelaskan di perenggan i. hingga iv. Termasuk dalam golongan ini ialah pekerja sambilan yang terdapat di dalam daftar gaji dan pekerja yang mogok, berpiket dan bercuti jangka pendek (cuti sakit, cuti rehat atau cuti kecemasan). Tidak termasuk pekerja yang cuti berpanjangan.

- i. **Pemilik yang bekerja dan rakan niaga yang aktif** merujuk kepada semua pemilik perseorangan dan rakan

niaga, sambilan atau sepenuh masa, yang bekerja dengan aktif dalam pertubuhan itu. Ia tidak termasuk rakan niaga yang tidak aktif.

- ii. **Pekerja keluarga tidak bergaji** ditakrifkan sebagai semua ahli isi rumah kepada pemilik pertubuhan yang melaksanakan kerja tertentu (sepenuh masa atau sambilan) dan bekerja sekurang-kurangnya satu pertiga daripada waktu bekerja biasa yang diamalkan oleh pertubuhan berkenaan tanpa mendapat bayaran secara berkala sama ada dalam bentuk wang tunai atau mata benda bagi kerja yang dilakukan. Biasanya pekerja berkenaan mendapat makanan, tempat tinggal dan bantuan lain sebagai sebahagian daripada ahli isi rumah pemilik tersebut dan terus mendapatnya sama ada ia bekerja atau tidak di pertubuhan itu.
- iii. **Pekerja sepenuh masa** ditakrifkan sebagai semua pekerja bergaji yang bekerja sekurang-kurangnya enam jam sehari dan sekurang-kurangnya 20 hari sebulan.
- iv. **Pekerja sambilan** meliputi semua pekerja bergaji yang bekerja

10. Kategori kemahiran

Kategori kemahiran telah dikelaskan berdasarkan Piawaian Pengkelasan Pekerjaan Malaysia (MASCO) 2013 adalah seperti berikut :

- i. **Pekerja mahir:** Pengurusan & Profesional dan Juruteknik dan Profesional Bersekutu
- ii. **Pekerja separa mahir:** Pekerja Perkeranian dan Pekerja Operatif: dan
- iii. **Pekerja kurang mahir:** Pekerja Asas

11. Nilai harta tetap

Nilai harta tetap meliputi semua barangan, baru atau terpakai, ketara atau tidak ketara yang mempunyai hayat

produktif lebih daripada setahun. Ia termasuk tanah, bangunan dan struktur, alat pengangkutan, komputer dan peralatan periferal, peralatan serta perabot dan pemasangan lain. Nilai harta tetap bagi awal tahun 2015 dan akhir tahun 2015 berasaskan nilai buku akaun. Pembelian, pengubahsuaian dan pembaikan besar atau perbelanjaan modal pada tahun berkenaan dikira pada nilai sebenar. Nilai harta tetap yang dijual dalam tahun semasa juga dikira pada nilai sebenar.

12. Kadar pertumbuhan tahunan dikompaun (CAGR)

Pengiraan kadar pertumbuhan tahunan dikompaun (r) adalah berdasarkan formula berikut:

$$y_t = y_0 (1 + r)^t$$

Penyelesaian bagi r,

$$r = \left[e^{\frac{1}{t} \ln \left(\frac{y_t}{y_0} \right)} - 1 \right] \times 100$$

Di mana, y_t = Nilai pada tahun semasa

y_0 = Nilai pada tahun sebelum

t = Bilangan tahun, $y_t - y_0$

r = Kadar pertumbuhan tahunan dikompaun

13. Pembundaran

Jumlah bagi komponen mungkin berbeza dengan jumlah besar di dalam jadual-jadual dalam penerbitan ini disebabkan oleh pembundaran angka.

14. Simbol dan singkatan

Simbol dan singkatan berikut telah digunakan dalam keseluruhan penerbitan:

- tiada
- & dan
- % peratus
- } digabungkan
- > lebih daripada
- < kurang daripada
- ≤ kurang daripada atau sama

CAGR Kadar pertumbuhan tahunan dikompaun

dll. dan lain-lain

*IRIS International Recommendations of Industrial
Statistics*

RM Ringgit Malaysia

- 1. Scope and coverage**

The census covers all establishments that conduct mining and / or quarrying activities. A total of 27 industries were covered based on the classification identified in the Section B (Mining & Quarrying) in the Malaysia Standard Industrial Classification (MSIC) 2008.

- 2. Source of frame**

The main source of this census frame are companies registered with the Company Commission of Malaysia (CCM), Minerals & Geosciences Department, Malaysia (JMG) and other relevant agencies.

- 3. Type of business activity**

The type of business activity refers to both principal and secondary activities. The principal activity refers to the activity to which the establishment devoted most of its resources or to which it derived most of its income. Secondary activities are defined as those incidental or ancillary to the principal activity. The classification of the industry of the establishment is based on its principal activity and is in accordance with the Malaysia Standard Industrial Classification (MSIC), 2008 Ver. 1.0.

- 4. Concept and definition**

Concepts and definitions used are based on the recommendations of the United Nations' Statistical Office¹. The definition of mining and quarrying used in this survey follows the "Malaysia Standard Industrial Classification (MSIC) 2008" Version 1.0.

"Mining is defined as the extraction, dressing and beneficiating of minerals occurring naturally as solids, such as coal and ores; liquids, such as crude oil; or gases, such as natural gas. Mining also includes underground and surface mines, quarries and wells and all supplemental activities for dressing and beneficiating ores and other crude minerals such as crushing, screening, washing, cleaning, grading, milling, flotation, melting, pelleting, topping and other preparations needed to render the material marketable. Mining activities are classified into groups on the basis of the

principal mineral produced.”

“Quarrying refers to activity of extraction from a mine or quarry, but also dredging of alluvial deposits, rock crushing and the use of salt marshes. The products are used most notably in construction (e.g. sands, stones, etc.), manufacture of materials (e.g. clay, gypsum, calcium, etc.), manufacture of chemicals, etc.

It includes quarrying, rough trimming and sawing of monumental and building stone such as marble, granite, sandstones, etc., quarrying, crushing and breaking of limestone, mining of gypsum and anhydrite, mining of chalk and unclaimed dolomite, extraction and dredging of industrial sand, sand for construction and gravel, breaking and crushing of stone and gravel, quarrying of sand and mining of clays, refractory clays and kaolin.

Activities of It also includes mining of chemical and fertilizer minerals, extraction of peat, extraction of salt, etc.”

5. Reporting unit

The reporting unit for the survey was the establishment. An establishment is defined as “an economic unit engaged in one activity, under a single legal entity and operating in a single physical location”. Each establishment was assigned an industry classification based on its principal activity. In the case of a multi-activity entity, units engaged in separate activities in the same location constituted distinct establishments. Thus, each branch of a multi-branch organisation at a different location was conceptually treated as a different establishment.

6. Value of gross output

The value of gross output is defined to include the following:

Sale of mineral / quarry products

+ Values of goods sold in the same condition as purchased;

- *Cost of goods sold in the same condition as purchased;*
- + *Capital expenditure on own construction;*
- + *Income from industrial services rendered to others;*
- + *Income from industrial work done (e.g. manufacturing, construction, etc.);*
- + *Receipt from scrap, electricity, waste product, etc. sold to others;*
- + *Receipt from commission and brokerage earned;*
- + *All other output (such as receipts of non-industrial services, e.g. management fees received, income from rental of property, etc.);*
- + *Closing stock of finished goods;*
- *Opening stock of finished goods;*
- + *Closing stock of goods being processed;*
- *Opening stock of goods being processed; and*
- + *Research and development expenditure (In-house)*

7. Value of intermediate input

The value of intermediate input is defined to include the following:

Value of materials and supplies consumed

- + *Cost of industrial work done by others include stripping overburden (earth removal) and internal transport in mines / quarries site;*
- + *Electricity and water purchased;*
- + *Value of fuels, lubricants and gas consumed;*
- + *Cost of materials used for repairs and maintenance of assets (including payments to others for this work);*
- + *Payments for non-industrial services such as toll, ferry, pilotage, towage and harbor fees and charges (including payments for carriage outwards, travelling, management fees, legal services, information technology, advertising, bank charges, postage, telecommunication, etc.);*
- + *All other input costs (including training and value of the free apparel provided for the workers);*

- + Opening stocks of raw materials; and
- Closing stocks of raw materials

8. Value added

Value added is the increment to the value of commodities and services contributed by the construction establishment and it is derived as the difference between the value of gross output and the value of intermediate input.

9. Number of persons engaged

Number of persons engaged in an establishment is defined as the total number of persons employed during December or the last pay period of the reference year. The number of persons engaged includes all working proprietors and active business partners, unpaid family workers and paid employees as defined in paragraphs i. to iv. Included are part-time workers in the payroll and persons on strike, picket and short-term leave (sick, vacation or emergency leave) excluding workers on indefinite leave.

*i. **Working proprietors and active business partners** refer to all individual proprietors and partners, part-time or full-time, who are actively engaged in the work of the establishment. It therefore excludes silent and inactive partners.*

*ii. **Unpaid family workers** is defined as all persons (full-time or part-time) of the household of any of the owners of the establishment who perform a specified job and work for a minimum of one third of the normal working time of the establishment, but do not receive regular payment either in cash or in kind for the work done. Such workers generally receive food, shelter and other support as part of the household of an owner but these provisions would continue whether they worked in the establishment or not.*

*iii. **Full-time employees** is defined as all paid workers who work for at least six hours a day and for at least 20 days a month.*

iv. **Part-time employees** include all paid workers who work for less than six hours a day and/or less than 20 days a month.

10. Category of skilled

Category of skilled has been categorised according to Malaysia Standard Classification of Occupations 2013 (MASCO) as follow:

i. **High-skilled:** Manager & Professionals and Technician & Associate Professionals;

ii. **Semi-skilled:** Clerical Occupations & Operative Workers; and

iii. **Low-skilled:** Elementary Workers

11. Value of fixed assets

Fixed assets cover all goods, new or used, tangible or intangible that has a normal economic life span of more than one year. Included are land, buildings and structure, transport equipment, computer and peripheral equipment, other machinery, equipment and furniture and fittings. Value of assets as at the beginning of 2015 and end of 2015 was based on net book value. Purchases, alterations and major repairs or capital expenditure during the year were valued at actual costs incurred. Value of fixed assets sold during the year refers to the realised value.

12. Compound annual growth rate (CAGR)

The calculation of compound annual growth rate (*r*) is based on the following:

$$y_t = y_0 (1 + r)^t$$

Solving for *r*,

$$r = \left[e^{\frac{1}{t} \ln \left(\frac{y_t}{y_0} \right)} - 1 \right] \times 100$$

Where, y_t = Value at current year

y_0 = Value at previous year

t = Number of years, $y_t - y_0$

r = Compound annual growth rate

13. Rounding

The sum of the components may not add up to the total in the tables presented in this publication due to rounding.

14. Symbols and abbreviations

The sum of the components may not add up to the total in the tables presented in this publication due to rounding.

- *nil*
- & *and*
- % *percent*
- } *combined*
- > *greater than*
- < *less than*
- ≤ *less than or equal than*

CAGR *Compounded Annual Growth Rate*

etc. et cetera

IRIS *International Recommendations of Industrial Statistics*

RM *Ringgit Malaysia*

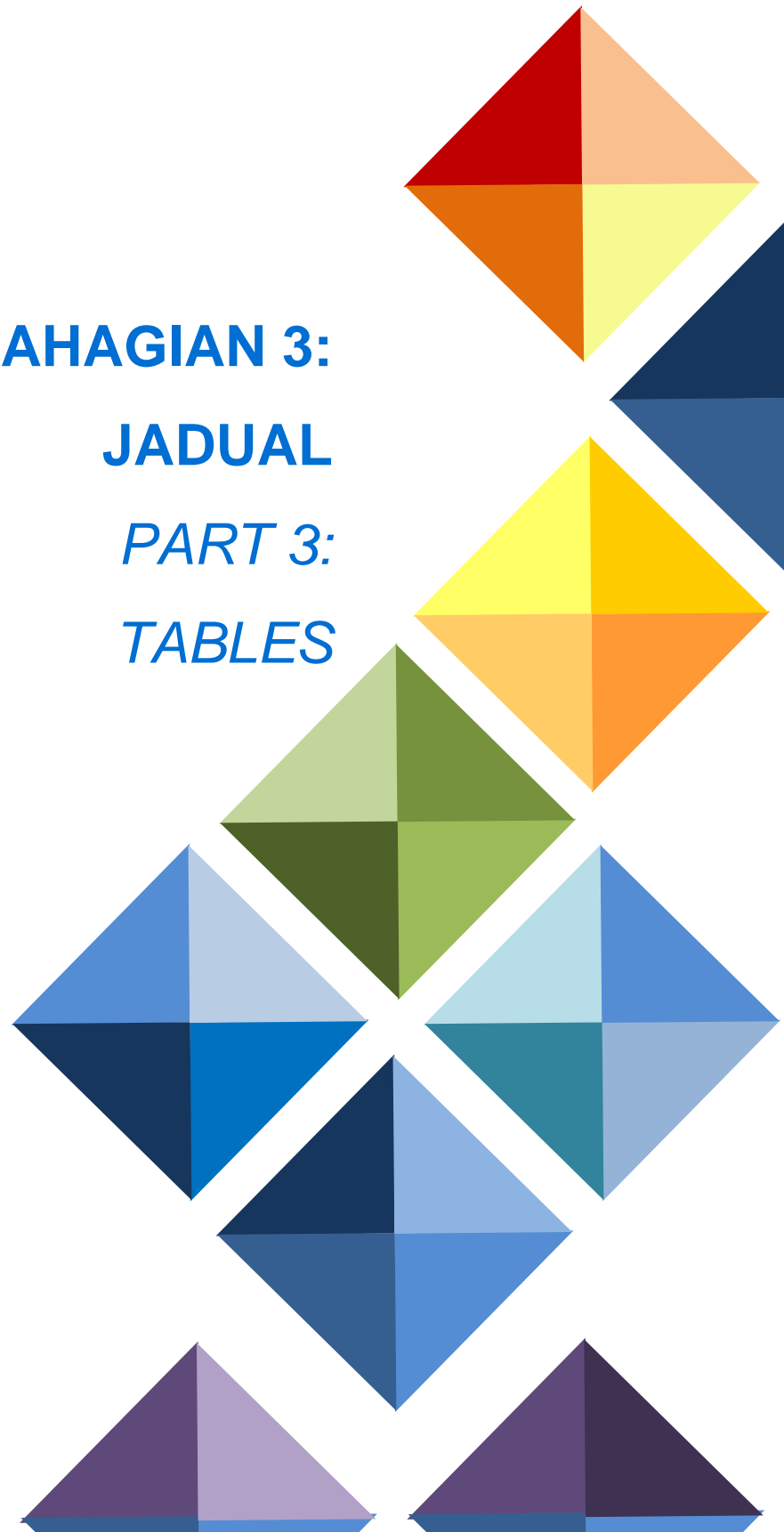
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BAHAGIAN 3:

JADUAL

PART 3:

TABLES



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Perangkaan utama sektor perlombongan dan pengkuarian 2010 - 2015

Principal statistics of mining and quarrying sector, 2010 - 2015

Tahun <i>Year</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed the end of the year</i>
		(RM Juta) <i>(RM Million)</i>	(RM Juta) <i>(RM Million)</i>	(RM Juta) <i>(RM Million)</i>		(RM Juta) <i>(RM Million)</i>	(RM Juta) <i>(RM Million)</i>
2015	869	10,667	6,441	4,226	40,656	1,210	4,840
2010	402	4,496	2,807	1,689	19,297	486	1,848
2005	223	1,925	1,143	782	11,948	251	1,085
2000	321	1,633	978	655	14,106	263	1,307

Nota/Note :

Perangkaan utama berdasarkan kepada tahun Banci Ekonomi

Principal statistics are based on year of the Economic Census

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**A. SUBSEKTOR
PERLOMBONGAN
MINERAL**

MINERAL MINING

SUB-SECTOR



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Jadual A1 : Perangkaan utama subsektor perlombongan mineral, 1990 - 2015

Table A1 : Principal statistics of mineral mining sub-sector, 1990 - 2015

Tahun <i>Year</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
		(RM Juta) <i>(RM Million)</i>	(RM Juta) <i>(RM Million)</i>	(RM Juta) <i>(RM Million)</i>		(RM Juta) <i>(RM Million)</i>	(RM Juta) <i>(RM Million)</i>
2015	158	3,548	2,087	1,461	12,488	393	1,343
2010	68	1,528	929	600	4,954	141	665
2005	43	385	224	161	2,528	48	138
2000	101	349	232	117	2,498	53	108
1999	101	364	141	223	4,489	72	105
1997	76	290	142	148	4,086	61	140
1995	96	395	203	192	5,396	70	143
1993	144	429	201	228	7,454	82	306
1992	176	525	278	247	10,170	97	487
1991	222	637	336	301	11,855	112	479
1990	365	734	418	316	16,996	141	523

Jadual A2 : Perangkaan utama subsektor perlombongan mineral mengikut industri, 2015

Table A2 : Principal statistics of mineral mining sub-sector by industry, 2015


Industri <i>Industry</i>	Bilangan pertubuhan <i>Number of establishment</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
Jumlah <i>Total</i>	158	3,547,665	2,086,648	1,461,017	12,488	393,200	1,342,798
Perlombongan batu arang <i>Coal mining</i>	8	429,433	341,000	88,433	1,316	42,445	153,766
Perlombongan bijih besi <i>Iron ore mining</i>	35	365,729	232,899	132,830	1,714	44,333	286,815
Perlombongan bijih timah* <i>Tin mining</i>	10	150,473	65,756	84,717	830	26,515	76,255
Perlombongan bauksit <i>Bauxite mining</i>	59	1,718,244	1,133,919	584,325	5,305	173,564	263,738
Perlombongan ilmenit <i>Ilmenite mining</i>	6	54,898	37,466	17,432	251	6,064	79,530
Perlombongan emas <i>Gold mining</i>	21	772,956	247,261	525,696	2,768	90,828	455,128
Pembilasan amang <i>Amang retreatment</i>	13	37,854	19,582	18,272	196	6,415	17,121
Perlombongan bijih logam bukan besi lain <i>Other non-ferrous metal ores mining</i>	6	18,079	8,766	9,313	108	3,036	10,447

* Meliputi perlombongan kapal korek, pam kelikir, dedah dan bawah tanah; mendulang tidak diliputi

Includes dredging, gravel pumping, open cast and underground mining; dulang washing is not covered

Jadual A3 : Perangkaan utama subsektor perlombongan mineral mengikut negeri, 2015

Table A3 : Principal statistics of mineral mining sub-sector by state, 2015

Negeri <i>State</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>	
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)	
Jumlah Total	158	3,547,665	2,086,648	1,461,017	12,488	393,200	1,342,798	
 Johor	}	7	82,116	54,852	27,264	249	9,263	10,085
Kedah								
Kelantan		13	182,858	73,451	109,407	616	21,058	91,490
Negeri Sembilan		7	114,343	75,825	38,519	624	11,130	78,018
Pahang		88	2,514,224	1,436,184	1,078,040	8,460	271,373	910,612
Perak		21	166,294	71,497	94,796	968	29,794	91,362
Selangor		6	26,357	15,681	10,676	77	3,624	6,201
Terengganu		8	32,040	18,158	13,882	178	4,512	1,265
Sarawak		8	429,433	341,000	88,433	1,316	42,445	153,766

Jadual A4 : Perangkaan utama subsektor perlombongan mineral mengikut taraf sah, 2015

Table A4 : Principal statistics of mineral mining sub-sector by legal status, 2015

Taraf sah <i>Legal organisation</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
Jumlah <i>Total</i>	158	3,547,665	2,086,648	1,461,017	12,488	393,200	1,342,798
Residen Malaysia <i>Malaysian Residents</i>	153	3,050,548	1,926,931	1,123,617	10,495	330,113	934,291
Bukan residen Malaysia <i>Non-Malaysian residents</i>	5	497,117	159,717	337,400	1,993	63,087	408,507

Jadual A5 : Perangkaan utama subsektor perlombongan mineral mengikut hak milik, 2015

Table A5 : Principal statistics of mineral mining sub-sector by ownership, 2015

Hak milik <i>Ownership</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
Jumlah <i>Total</i>	158	3,547,665	2,086,648	1,461,017	12,488	393,200	1,342,798
Hak milik perseorangan <i>Individual proprietorship</i>	2	1,163	546	617	12	260	1,162
Perkongsian <i>Partnership</i>	4	14,027	9,345	4,682	48	1,425	958
Syarikat sendirian berhad <i>Private limited company</i>	152	3,532,475	2,076,757	1,455,718	12,428	391,514	1,340,678
Perkongsian liabiliti terhad <i>Limited liabilities partnership</i>							

Jadual A6 : Perangkaan utama subsektor perlombongan mineral mengikut saiz pekerja, 2015

Table A6 : Principal statistics of mineral mining sub-sector by employment size, 2015

Saiz pekerja <i>Employment saiz</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantara <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
Jumlah <i>Total</i>	158	3,547,665	2,086,648	1,461,017	12,488	393,200	1,342,798
Kurang daripada 5 pekerja <i>Less than 5 employees</i>	25	14,468	6,956	7,512	71	1,718	7,268
5 pekerja < 30 pekerja <i>5 employees < 30 employees</i>	74	260,458	147,554	112,905	1,009	33,529	86,087
30 pekerja ≤ 75 pekerja <i>30 employees ≤ 75 employees</i>	25	366,193	223,263	142,930	1,214	40,619	140,567
Lebih daripada 75 pekerja <i>More than 75 employees</i>	34	2,906,545	1,708,875	1,197,670	10,194	317,334	1,108,877

Jadual A7 : Perangkaan utama subsektor perlombongan mineral mengikut saiz output kasar, 2015

Table A7 : Principal statistics of mineral mining sub-sector by gross output size, 2015

Saiz output <i>Output size</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantara <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
Jumlah <i>Total</i>	158	3,547,665	2,086,648	1,461,017	12,488	393,200	1,342,798
Kurang daripada RM300,000 <i>Less than RM300,000</i>	12	2,052	894	1,158	31	511	2,278
RM300,000 < RM3 juta <i>RM300,000 < RM3 million</i>	60	84,378	41,771	42,606	480	13,474	48,010
RM3 juta ≤ RM20 juta <i>RM3 million ≤ RM20 million</i>	52	487,485	297,822	189,663	2,069	60,780	172,555
Lebih daripada RM20 juta <i>More than RM20 million</i>	34	2,973,750	1,746,160	1,227,590	9,908	318,435	1,119,956

Jadual A8 : Perangkaan utama subsektor perlombongan mineral mengikut saiz harta tetap, 2015

Table A8 : Principal statistics of mineral mining sub-sector by size of fixed assets, 2015

Saiz harta <i>Assets size</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of Intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
(RM '000)		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
Jumlah <i>Total</i>	158	3,547,665	2,086,648	1,461,017	12,488	393,200	1,342,798
Kurang daripada 50 <i>Below</i>	27	210,312	139,632	70,680	833	23,190	277
50 - < 200	24	171,172	103,043	68,129	743	23,054	2,866
200 - < 1,000	43	327,979	188,722	139,256	1,127	38,236	20,357
1,000 - < 5,000	36	551,937	286,065	265,872	2,014	63,074	82,398
5,000 - < 10,000	10	258,620	179,358	79,262	732	25,903	73,372
10,000 - < 25,000	5	302,898	213,761	89,137	985	30,290	94,325
25,000 - < 50,000	3	167,424	85,570	81,854	853	27,401	98,293
50,000 - < 100,000	10	1,557,324	890,497	666,827	5,201	162,052	970,910
100,000 - < 150,000							
150,000 - < 200,000							
200,000 dan lebih <i>and above</i>							


Jadual A9 : Bilangan pekerja dan gaji & upah dalam subsektor perlombongan mineral mengikut kategori pekerja, 2015

Table A9 : Number of person engaged and salaries & wages in mineral mining sub-sector by category of workers, 2015

Kategori pekerja <i>Category of workers</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>			Gaji & upah yang dibayar <i>Salaries & wages paid</i> (RM '000)
	Jumlah <i>Total</i>	Lelaki <i>Male</i>	Perempuan <i>Female</i>	
Jumlah <i>Total</i>	12,488	11,893	595	393,200
Pemilik yang bekerja, rakan niaga yang aktif dan pekerja keluarga tidak bergaji <i>Working proprietors, active business partners and unpaid family workers</i>	16	15	1	n.a
Pekerja bergaji sepenuh masa <i>Full-time paid employees</i>				
Pengurus <i>Manager</i>	388	335	53	33,817
Profesional <i>Professionals</i>	382	328	54	24,606
Juruteknik dan Profesional Bersekutu <i>Technicians and Associate Professionals</i>	317	303	14	14,694
Pekerja Sokongan Perkeranian <i>Clerical Support Workers</i>	380	87	293	9,606
Pekerja Perkhidmatan dan Jualan <i>Services and Sales Workers</i>	56	50	6	1,732
Pekerja Kemahiran dan Pekerja Pertukangan yang berkaitan <i>Craft and Related Trades Workers</i>	124	124	-	3,297
Operator Mesin dan Loji dan Pemasang <i>Plant and Machine Operators and Assemblers</i>	9,818	9,708	110	286,580
Pekerja Asas <i>Elementary Occupations</i>	946	900	46	17,365
Pekerja bergaji (sambilan) <i>Paid employees (part-time)</i>	61	43	18	1,504

Jadual A10 : Bilangan pekerja dalam subsektor perlombongan mineral mengikut kelulusan akademik dan jantina, 2015

Table A10 : Number of person engaged in mineral mining sub-sector by academic qualification and sex, 2015

Kelulusan <i>Qualification</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>		
	Jumlah <i>Total</i>	Lelaki <i>Male</i>	Perempuan <i>Female</i>
Jumlah/Total	12,488	11,893	595
Pascasiswazah / Postgraduate	18	16	2
 Ijazah Sarjana Muda/ Diploma lanjutan atau yang setaraf <i>Bachelor / Advanced Diploma or equivalent</i>	316	271	45
Diploma / Diploma	1,220	1,086	134
STPM atau yang setaraf / STPM or equivalent	820	779	41
Sijil / Certificate	3,507	3,470	37
SPM / SPM (V) atau yang setaraf / SPM / SPM (V) or equivalent	3,222	3,010	212
Di bawah taraf kelulusan SPM / SPM (V) / Below SPM / SPM (V) qualification	3,385	3,261	124


Jadual A11 : Bilangan pekerja dan gaji & upah yang dibayar dalam subsektor perlombongan mineral mengikut kewarganegaraan, 2015

Table A11 : Number of person engaged and salaries & wages in mineral mining sub-sector by citizenship, 2015

Industri <i>Industry</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>			Gaji & upah yang dibayar <i>Salaries & wages paid</i> (RM '000)
	Jumlah <i>Total</i>	Warganegara <i>Malaysian</i>	Bukan Warganegara <i>Non-Malaysian</i>	
Jumlah <i>Total</i>	12,488	10,617	1,871	393,200
Perlombongan batu arang <i>Coal mining</i>	1,316	958	358	42,445
Perlombongan bijih besi <i>Iron ore mining</i>	1,714	1,279	435	44,333
Perlombongan bijih timah <i>Tin mining</i>	830	604	226	26,515
Perlombongan bauksit <i>Bauxite mining</i>	5,305	4,622	683	173,564
Perlombongan ilmenit <i>Ilmenite mining</i>	251	194	57	6,064
Perlombongan emas <i>Gold mining</i>	2,768	2,687	81	90,828
Pembilasan amang <i>Amang retreatment</i>	196	178	18	6,415
Perlombongan bijih logam bukan besi lain <i>Other non-ferrous metal ores mining</i>	108	95	13	3,036

Jadual A12 : Bilangan pekerja dan gaji & upah yang dibayar dalam subsektor perlombongan mineral mengikut kemahiran dan jantina, 2015

Table A12 : Number of person engaged and salaries & wages of mineral mining sub-sector by skill and sex, 2015

Kategori kemahiran pekerja <i>Category of workers skilled</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>			Gaji & upah yang dibayar <i>Salaries & wages paid</i> (RM '000)
	Jumlah <i>Total</i>	Lelaki <i>Male</i>	Perempuan <i>Female</i>	
Jumlah* <i>Total</i>	12,411	11,835	576	391,695
Pekerja Mahir <i>High-Skilled Workers</i>	1,087	966	121	73,117
 Pekerja Separuh Mahir <i>Semi-Skilled Workers</i>	10,378	9,969	409	301,214
Pekerja Kurang Mahir <i>Low-Skilled Workers</i>	946	900	46	17,365

* Tidak termasuk pemilik yang bekerja dan rakan niaga yang aktif, pekerja keluarga tidak bergaji dan pekerja bergaji (sambilan)

Excludes working proprietors and active business partners, unpaid family workers and paid employees (part-time)

Jadual A13 : Nilai harta tetap dalam subsektor perlombongan mineral mengikut jenis harta, 2015

Table A13 : Value of fixed assets in mineral mining sub-sector by type of assets, 2015

(RM '000)						
Jenis harta <i>Type of assets</i>	Nilai buku bersih seperti pada 01.01.2015 <i>Net book value as at 01.01.2015</i>	Perbelanjaan modal <i>Capital expenditure</i>	Harta yang dilupus <i>Assets sold or disposed off</i>	Susut nilai semasa <i>Current depreciation</i>	Nilai buku bersih seperti pada 31.12.2015 <i>Net book value as at 31.12.2015</i>	Sewa yang dibayar dalam tahun 2015 <i>Rent paid during 2015</i>
Jumlah <i>Total</i>	1,291,040	300,568	39,208	139,955	1,342,798	45,784
Harta tetap / Fixed assets						
Tanah / Land	488,723	65,610	7,122	298	482,618	6,758
Bangunan dan binaan lain / Buildings and other construction						
Tempat kediaman / Residential	7,830	-	-	186	7,644	496
Bukan tempat kediaman / Non-residential	127,458	14,986	202	8,263	129,706	5,805
Binaan lain kecuali pembangunan tanah <i>Other construction except land improvement</i>	115,652	45,094	13	29,635	131,098	2,041
Pembangunan tanah / Land improvement	-	-	-	-	-	-
Alat pengangkutan / Transport equipment						
Kereta penumpang / Passenger cars	5,889	197	2	926	5,037	67
Kenderaan perdagangan / Commercial vehicles	70,366	56,164	2,734	26,707	93,432	8,080
Lain-lain / Others	702	-	-	352	350	-
Komputer / Computer						
Perkakasan komputer / Computer hardware	2,871	278	4	742	2,381	895
Perisian komputer / Computer software	75	2	-	10	67	-
Peralatan telekomunikasi / Telecommunications equipment	889	38	-	135	789	-
Jentera dan kelengkapan / Machinery and equipment	366,079	91,312	9,769	59,848	379,042	21,161
Perabot dan pemasangan / Furniture and fittings	24,391	1,358	1,282	3,591	20,738	444
Mencarigali mineral / Mineral exploration	47,081	16,493	-	6,580	56,995	-
Harta lain / Other assets	33,035	9,037	18,079	2,681	32,902	36

Jadual A14 : Nilai input perantaraan dalam subsektor perlombongan mineral, 2015

Table A14 : Value of intermediate input in mineral mining sub-sector, 2015

Industri <i>Industry</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai input perantaraan <i>Value of Intermediate input</i>			
		Jumlah <i>Total</i>	Kos bahan mentah <i>Cost of raw materials</i>	Perkhidmatan bukan perindustrian <i>Non-industrial services</i>	Kos input lain <i>Other input cost</i>
		(RM '000)	(RM '000)	(RM '000)	(RM '000)
Jumlah <i>Total</i>	158	2,086,648	440,012	586,607	1,060,028
Perlombongan batu arang <i>Coal mining</i>	8	341,000	216,494	27,843	96,663
Perlombongan bijih yang tinggi kandungan besi <i>Iron ore mining</i>	35	232,899	85,929	77,415	69,556
Perlombongan bijih timah <i>Tin mining</i>	10	65,756	18,087	9,281	38,388
Perlombongan bauksit <i>Bauxite mining</i>	59	1,133,919	63,228	410,548	660,143
Perlombongan ilmenit <i>Ilmenite mining</i>	6	37,466	21,583	2,880	13,002
Perlombongan emas <i>Gold mining</i>	21	247,261	18,400	53,268	175,593
Pembilasan amang <i>Amang retreatment</i>	13	19,582	14,468	1,558	3,556
Perlombongan bijih logam bukan besi lain <i>Other non-ferrous metal ores mining</i>	6	8,766	1,824	3,814	3,128

**B. SUBSEKTOR
PENGKUARIAN**
*QUARRYING
SUB-SECTOR*



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Jadual B1 : Perangkaan utama subsektor pengkuarian, 1990 - 2015

Table B1 : Principal statistics of quarrying sub-sector, 1990 - 2015

Tahun <i>Year</i>	Bilangan pertubuhan <i>Number of establishment</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantara <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
		(RM Juta) <i>(RM Million)</i>	(RM Juta) <i>(RM Million)</i>	(RM Juta) <i>(RM Million)</i>		(RM Juta) <i>(RM Million)</i>	(RM Juta) <i>(RM Million)</i>
2015	711	7,120	4,354	2,765	28,168	817	3,497
2010	334	2,968	1,878	1,089	14,343	345	1,183
2005	180	1,540	919	621	9,420	203	947
2000	220	1,285	746	538	11,608	210	1,199
1998	239	1,355	809	546	13,507	232	1,107
1995	258	1,260	751	508	13,675	206	731
1993	247	1,041	598	442	12,068	160	484
1992	230	959	564	395	11,854	148	432
1991	199	726	426	300	11,009	122	303
1990	193	615	372	243	9,939	101	248

Jadual B2 : Perangkaan utama subsektor pengkuarian mengikut industri, 2015

Table B2 : Principal statistics of quarrying sub-sector by industry, 2015

Industri <i>Industry</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
Jumlah <i>Total</i>	711	7,119,567	4,354,349	2,765,218	28,168	816,611	3,496,882
Aktiviti sokongan perlombongan dan pengkuarian lain <i>Support activities for other mining and quarrying</i>	39	226,559	117,908	108,651	1,243	34,432	69,852
Pemecahan dan penghancuran batu dan kerikil <i>Breaking and crushing of stone and gravel</i>	139	2,386,484	1,641,871	744,613	6,959	216,804	744,418
Pengkuarian, pemotongan kasar bongkah batu dan batu bangunan seperti marmar, granit (dimension stone), batu pasir <i>Quarrying, rough trimming and sawing of monumental and building stone such as marble, granite (dimension stone), sandstone</i>	56	507,423	313,116	194,308	2,026	61,658	201,225
Pengkuarian, penghancuran dan pemecahan batu kapur <i>Quarrying, crushing and breaking of limestone</i>	63	789,967	433,911	356,057	4,490	124,868	762,079

Jadual B2 : Perangkaan utama subsektor pengkuarian mengikut industri, 2015 (samb.)

Table B2 : Principal statistics of quarrying sub-sector by industry, 2015 (cont.)

Industri <i>Industry</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
 Pengkuarian, penghancuran dan pemecahan granit <i>Quarrying, crushing and breaking of granite</i>	110	1,960,942	1,163,040	797,902	6,577	192,923	813,536
Perlombongan dan pengkuarian lain t.t.t.l <i>Other mining and quarrying n.e.c</i>	50	302,914	158,023	144,892	1,526	43,668	514,073
Perlombongan tanah liat, refraktori tanah liat dan kaolin <i>Mining of clays, refractory clays and kaolin</i>	23	98,374	64,840	33,534	475	12,528	48,012
Pengekstrakan pasir * <i>Sand extraction</i>	231	846,903	461,642	385,262	4,872	129,730	343,687

* Termasuk pengekstrakan dan pengorekan bagi industri pasir, pasir untuk sektor pembinaan dan kerikil

* Include extraction and dredging of industrial sand, sand for construction and gravel

Jadual B3 : Perangkaan utama subsektor pengkuarian mengikut negeri, 2015

Table B3 : Principal statistics of quarrying sub-sector by state, 2015

Negeri <i>State</i>	Bilangan <i>Number of</i> pertubuhan <i>establishments</i>	Nilai output kasar <i>Value of</i> <i>gross</i> <i>output</i>	Nilai input perantara <i>Value of</i> <i>intermediate</i> <i>input</i>	Nilai ditambah <i>Value</i> <i>added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of</i> <i>persons engaged</i> <i>during December or</i> <i>the last pay period</i>	Gaji & upah yang dibayar <i>Salaries &</i> <i>wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed</i> <i>assets owned as at</i> <i>the end of the year</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
Jumlah <i>Total</i>	711	7,119,567	4,354,349	2,765,218	28,168	816,611	3,496,882
Johor	103	1,252,631	773,111	479,520	5,140	152,865	602,756
Kedah	27	87,435	52,278	35,157	524	13,924	24,472
Kelantan	62	264,643	156,118	108,525	1,629	41,397	86,819
Melaka	18	104,828	54,644	50,184	506	9,967	97,282
Negeri Sembilan	47	317,290	187,732	129,558	1,269	37,512	101,799
Pahang	62	897,190	640,251	256,939	2,455	89,625	148,428
Perak	111	899,579	513,359	386,220	3,851	101,672	828,887
Perlis	5	54,947	33,571	21,376	247	8,675	8,254
Pulau Pinang	29	566,186	296,042	270,145	1,550	52,318	223,005
Sabah	56	380,463	253,201	127,262	2,331	54,477	372,891
Sarawak	66	1,114,516	640,931	473,585	5,026	139,347	719,230
Selangor	83	1,037,668	665,747	371,921	2,865	95,370	241,719
Terengganu	42	142,190	87,364	54,825	775	19,462	41,341

Jadual B4 : Perangkaan utama subsektor pengkuarian mengikut taraf sah, 2015

Table B4 : Principal statistics of quarrying sub-sector by legal status, 2015

Taraf sah <i>Legal organisation</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
Jumlah <i>Total</i>	711	7,119,567	4,354,349	2,765,218	28,168	816,611	3,496,882
Hak milik perseorangan <i>Individual proprietorship</i>	76	157,595	92,611	64,984	1,077	21,333	44,563
Perkongsian <i>Partnership</i>	29	72,839	44,722	28,117	446	9,376	20,648
Syarikat awam berhad <i>Public limited company</i>	5	102,438	56,506	45,933	795	21,506	22,985
Syarikat sendirian berhad <i>Private limited company</i>	601	6,786,695	4,160,510	2,626,185	25,850	764,396	3,408,686
Perkongsian liabiliti terhad <i>Limited liabilities partnership</i>							

Jadual B5 : Perangkaan utama subsektor pengkuarian mengikut hak milik, 2015

Table B5 : Principal statistics of quarrying sub-sector by ownership, 2015

Hak milik <i>Ownership</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
Jumlah <i>Total</i>	711	7,119,567	4,354,349	2,765,218	28,168	816,611	3,496,882
Residen Malaysia <i>Malaysian residents</i>	705	7,017,022	4,289,020	2,728,001	27,671	799,015	3,457,518
Bukan residen Malaysia <i>Non-Malaysian residents</i>	6	102,545	65,328	37,217	497	17,596	39,364

Jadual B6 : Perangkaan utama subsektor pengkuarian mengikut saiz pekerja, 2015

Table B6 : Principal statistics of quarrying sub-sector by employment size, 2015

Saiz pekerja <i>Employment size</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
Jumlah <i>Total</i>	711	7,119,567	4,354,349	2,765,218	28,168	816,611	3,496,882
Kurang daripada 5 pekerja <i>Less than 5 employees</i>	119	74,282	35,684	38,598	381	7,227	58,685
5 pekerja < 30 pekerja <i>5 employees < 30 employees</i>	355	1,013,958	575,727	438,231	5,242	141,355	641,811
30 pekerja ≤ 75 pekerja <i>30 employees ≤ 75 employees</i>	151	1,666,115	1,025,865	640,249	6,917	199,607	640,401
Lebih daripada 75 pekerja <i>More than 75 employees</i>	86	4,365,212	2,717,072	1,648,140	15,628	468,422	2,155,984

Jadual B7 : Perangkaan utama subsektor pengkuarian mengikut saiz output kasar, 2015

Table B7 : Principal statistics of quarrying sub-sector by gross output size, 2015

Saiz output <i>Output size</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantara <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
Jumlah <i>Total</i>	711	7,119,567	4,354,349	2,765,218	28,168	816,611	3,496,882
Kurang daripada RM300,000 <i>Less than RM300,000</i>	84	13,312	6,285	7,027	288	3,949	30,926
RM300,000 < RM3 juta <i>RM300,000 < RM3 million</i>	279	364,037	186,914	177,124	3,332	76,671	265,480
RM3 juta ≤ RM20 juta <i>RM3 million ≤ RM20 million</i>	277	2,250,674	1,323,209	927,465	11,323	320,083	1,135,864
Lebih daripada RM20 juta <i>More than RM20 million</i>	71	4,491,543	2,837,941	1,653,602	13,225	415,907	2,064,612

Jadual B8 : Perangkaan utama subsektor pengkuarian mengikut saiz harta tetap, 2015

Table B8 : Principal statistics of quarrying sub-sector by size of fixed assets, 2015

Saiz harta <i>Assets size</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
(RM '000)		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
Jumlah <i>Total</i>	711	7,119,567	4,354,349	2,765,218	28,168	816,611	3,496,882
Kurang daripada 50 <i>Below</i>	115	188,914	115,447	73,467	1,150	28,874	1,863
50 - < 100	54	78,877	45,722	33,155	519	12,130	4,156
100 - < 200	48	139,741	86,110	53,631	802	19,538	6,760
200 - < 500	105	362,166	215,499	146,667	2,491	61,871	35,128
500 - < 1,000	77	339,112	173,987	165,125	1,918	50,392	55,430
1,000 - < 5,000	185	1,411,468	859,994	551,475	6,550	194,854	462,739
5,000 - < 10,000	56	808,816	493,239	315,578	3,341	99,479	393,092
10,000 - < 25,000	50	1,526,086	991,529	534,557	5,345	157,833	799,512
25,000 - < 50,000	12	1,026,039	702,082	323,957	2,298	81,136	402,677
50,000 dan lebih <i>and above</i>	9	1,238,347	670,741	567,606	3,754	110,504	1,335,524

Jadual B9 : Bilangan pekerja dan gaji & upah dalam subsektor pengkuarian mengikut kategori pekerja, 2015
Table B9 : Number of person engaged and salaries & wages in the quarrying sub-sector by category of workers, 2015

Kategori pekerja <i>Category of workers</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>			Gaji & upah yang dibayar <i>Salaries & wages paid</i> (RM '000)
	Jumlah <i>Total</i>	Lelaki <i>Male</i>	Perempuan <i>Female</i>	
Jumlah <i>Total</i>	28,168	25,428	2,740	816,611
Pemilik yang bekerja, rakan niaga yang aktif dan pekerja keluarga tidak bergaji <i>Working proprietors, active business partners and unpaid family workers</i>	157	137	20	n.a
Pekerja bergaji sepenuh masa <i>Full-time paid employees</i>				
Pengurus <i>Manager</i>	1,805	1,543	262	174,770
Profesional <i>Professionals</i>	776	555	221	46,863
Juruteknik dan Profesional Bersekutu <i>Technicians and Associate Professionals</i>	1,245	1,147	98	54,740
Pekerja Sokongan Perkeranian <i>Clerical Support Workers</i>	2,004	368	1,636	52,867
Pekerja Perkhidmatan dan Jualan <i>Services and Sales Workers</i>	356	279	77	11,209
Pekerja Kemahiran dan Pekerja Pertukangan yang berkaitan <i>Craft and Related Trades Workers</i>	925	909	16	26,108
Operator Mesin dan Loji dan Pemasang <i>Plant and Machine Operators and Assemblers</i>	17,623	17,452	171	394,538
Pekerja Asas <i>Elementary Occupations</i>	3,033	2,819	214	52,403
Pekerja bergaji (sambilan) <i>Paid employees (part-time)</i>	244	219	25	3,112

Jadual B10 : Bilangan pekerja dalam subsektor pengkuarian mengikut kelulusan akademik dan jantina, 2015

Table B10 : Number of person engaged in quarrying sub-sector by academic qualification and sex, 2015

Kelulusan <i>Qualification</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>		
	Jumlah <i>Total</i>	Lelaki <i>Male</i>	Perempuan <i>Female</i>
Jumlah / Total	28,168	25,428	2,740
Pascasiswazah / Postgraduate	121	97	24
Ijazah Sarjana Muda/ Diploma lanjutan atau yang setaraf <i>Bachelor / Advanced Diploma or equivalent</i>	1,661	1,330	331
Diploma / Diploma	3,028	2,450	578
STPM atau yang setaraf / STPM or equivalent	583	393	190
Sijil / Certificate	5,515	5,380	135
SPM / SPM (V) atau yang setaraf / SPM / SPM (V) or equivalent	10,037	8,764	1,273
Di bawah taraf kelulusan SPM / SPM (V) / Below SPM / SPM (V) qualification	7,223	7,014	209

Jadual B11 : Bilangan pekerja dan gaji & upah yang dibayar dalam subsektor pengkuarian mengikut kewarganegaraan, 2015

Table B11 : Number of person engaged and salaries & wages in quarrying sub-sector by citizenship, 2015


Industri <i>Industry</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>			Gaji & upah yang dibayar <i>Salaries & wages paid</i> (RM '000)
	Jumlah <i>Total</i>	Warganegara <i>Malaysian</i>	Bukan Warganegara <i>Non-Malaysian</i>	
	Jumlah <i>Total</i>	28,168	24,982	
Pengkuarian, pemotongan kasar bongkah batu dan batu bangunan seperti marmar, granit (dimension stone), batu pasir <i>Quarrying, rough trimming and sawing of monumental and building stone such as marble, granite (dimension stone), sandstone</i>	2,026	1,485	541	61,658
Pengkuarian, penghancuran dan pemecahan batu kapur <i>Quarrying, crushing and breaking of limestone</i>	4,490	4,155	335	124,868
Pemecahan dan penghancuran batu dan kerikil <i>Breaking and crushing of stone and gravel</i>	6,959	6,061	898	216,804
Pengekstrakan pasir * <i>Sand extraction</i>	4,872	4,466	406	129,730
Perlombongan tanah liat, refraktori tanah liat dan kaolin <i>Mining of clays, refractory clays and kaolin</i>	475	404	71	12,528
Pengkuarian, penghancuran dan pemecahan granit <i>Quarrying, crushing and breaking of granite</i>	6,577	5,798	779	192,923
Perlombongan dan pengkuarian lain t.t.t.l <i>Other mining and quarrying n.e.c</i>	1,526	1,439	87	43,668
Aktiviti sokongan perlombongan dan pengkuarian lain <i>Support activities for other mining and quarrying</i>	1,243	1,174	69	34,432

* Termasuk pengekstrakan dan pengorekan bagi industri pasir, pasir untuk sektor pembinaan dan kerikil

* Include extraction and dredging of industrial sand, sand for construction and gravel

Jadual B12 : Bilangan pekerja dan gaji & upah yang dibayar dalam subsektor pengkuarian mengikut kemahiran dan jantina, 2015

Table B12 : Number of person engaged and salaries & wages in quarrying sub-sector by skill and sex, 2015

Kategori kemahiran pekerja <i>Category of workers skilled</i>	Jumlah pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Total number of persons engaged during December or the last pay period</i>			Gaji & upah yang dibayar <i>Salaries & wages paid</i> (RM '000)
	Jumlah <i>Total</i>	Lelaki <i>Male</i>	Perempuan <i>Female</i>	
Jumlah* <i>Total</i>	27,767	25,072	2,695	813,499
Pekerja Mahir <i>High-Skilled Workers</i>	3,826	3,245	581	276,374
 Pekerja Separuh Mahir <i>Semi-Skilled Workers</i>	20,908	19,008	1,900	484,721
Pekerja Kurang Mahir <i>Low-Skilled Workers</i>	3,033	2,819	214	52,403

* Tidak termasuk pemilik yang bekerja dan rakan niaga yang aktif, pekerja keluarga tidak bergaji dan pekerja bergaji (sambilan)

Excludes working proprietors and active business partners, unpaid family workers and paid employees (part-time)

Jadual B13 : Nilai harta tetap dalam subsektor pengkuarian mengikut jenis harta, 2015

Table B13 : Value of fixed assets in quarrying sub-sector by type of assets, 2015

(RM '000)

Jenis harta <i>Type of assets</i>	Nilai buku bersih seperti pada 01.01.2015 <i>Net book value as at 01.01.2015</i>	Perbelanjaan modal <i>Capital expenditure</i>	Harta yang dijual atau dilupuskan <i>Assets sold or disposed off</i>	Susut nilai semasa <i>Current depreciation</i>	Nilai buku bersih seperti pada 31.12.2015 <i>Net book value as at 31.12.2015</i>	Sewa yang dibayar dalam tahun 2015 <i>Rent paid during 2015</i>
Jumlah <i>Total</i>	3,383,576	428,919	67,646	288,984	3,496,882	131,782
Harta tetap / Fixed assets						
Tanah / Land	807,667	126,823	-	11,611	927,816	41,047
Bangunan dan binaan lain / Buildings and other construction						
Tempat kediaman / Residential	31,153	8,734	-	2,291	37,700	1,294
Bukan tempat kediaman / Non-residential	249,655	20,382	174	9,727	260,136	22,209
Binaan lain kecuali pembangunan tanah Other construction except land improvement	47,200	6,405	574	2,495	50,535	652
Pembangunan tanah / Land improvement	21,640	7,003	35	3,737	24,871	n.a
Alat pengangkutan / Transport equipment						
Kereta penumpang / Passenger cars	29,572	9,267	2,476	6,679	31,383	12
Kenderaan perdagangan / Commercial vehicles	307,036	41,268	1,750	46,152	299,683	14,681
Lain-lain / Others	19,316	2,217	153	3,928	17,452	2,358
Komputer / Computer						
Perkakasan komputer / Computer hardware	118,524	795	183	2,456	117,790	44
Perisian komputer / Computer software	933	312	3	143	1,099	2
Peralatan telekomunikasi / Telecommunications equipment	6,326	39	8	377	5,980	-
Jentera dan kelengkapan / Machinery and equipment	1,540,092	158,785	16,822	188,435	1,498,328	48,914
Perabot dan pemasangan / Furniture and fittings	130,491	12,852	11,258	6,646	125,862	499
Mencarigali mineral / Mineral exploration	15,213	2,491	181	2,367	21,451	-
Harta lain / Other assets	58,759	31,546	34,030	1,940	76,797	70

Jadual B14 : Nilai input perantaraan dalam subsektor pengkuarian, 2015

Table B14 : Value of intermediate input in quarrying sub-sector, 2015

Industri <i>Industry</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai input perantaraan / <i>Value of Intermediate input</i>			
		Jumlah <i>Total</i>	Kos bahan mentah <i>Cost of raw materials</i>	Perkhidmatan bukan perindustrian <i>Non-industrial services</i>	Kos input lain <i>Other input cost</i>
		(RM '000)	(RM '000)	(RM '000)	(RM '000)
Jumlah <i>Total</i>	711	4,354,349	2,275,392	654,339	1,424,618
Pengkuarian, pemotongan kasar bongkah batu dan batu bangunan seperti marmar, granit (dimension stone), batu pasir <i>Quarrying, rough trimming and sawing of monumental and building stone such as marble, granite (dimension stone), sandstone</i>	56	313,116	154,245	48,211	110,660
Pengkuarian, penghancuran dan pemecahan batu kapur <i>Quarrying, crushing and breaking of limestone</i>	63	433,911	219,561	71,729	142,621
Pengekstrakan dan penggorekkan bagi industri pasir, pasir untuk sektor pembinaan dan kerikil <i>Extraction and dredging of industrial sand, sand for construction and gravel</i>	84	190,584	103,638	42,142	44,804
Pemecahan dan penghancuran batu dan kerikil <i>Breaking and crushing of stone and gravel</i>	139	1,641,871	811,343	207,207	623,320
Pengkuarian pasir <i>Quarrying of sand</i>	147	271,057	126,482	73,209	71,366
Perlombongan tanah liat, refraktori tanah liat dan kaolin <i>Mining of clays, refractory clays and kaolin</i>	23	64,840	24,098	19,832	20,911
Pengkuarian, penghancuran dan pemecahan granit <i>Quarrying, crushing and breaking of granite</i>	110	1,163,040	751,918	134,362	276,760
Perlombongan dan pengkuarian lain t.t.t.l <i>Other mining and quarrying n.e.c</i>	50	158,023	64,964	33,004	60,055
Aktiviti sokongan perlombongan dan pengkuarian lain <i>Support activities for other mining and quarrying</i>	39	117,908	19,144	24,644	74,120

Jadual B15 : Perangkaan utama pertubuhan milikan wanita dalam sektor perlombongan dan pengkuarian, 2015

Table B15 : Principal statistics of women-owned establishments in mining and quarrying sector, 2015

Sektor <i>Sector</i>	Bilangan pertubuhan <i>Number of establishment</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Bilangan pekerja pada bulan Disember atau pada tempoh gaji akhir <i>Number of persons engaged during December or the last pay period</i>	Gaji & upah yang dibayar <i>Salaries & wages paid</i>	Nilai harta tetap yang dimiliki pada akhir tahun <i>Value of fixed assets owned as at the end of the year</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
Jumlah <i>Total</i>	18	25,810	12,605	13,205	185	4,535	23,333
Perlombongan mineral <i>Mineral mining</i>	}	25,810	12,605	13,205	185	4,535	23,333
Pengkuarian <i>Quarrying</i>							

C. DATA SEKUNDER *SECONDARY DATA*



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Julat/purata harga agregat untuk jenis granit (RM per tan), 2015

Range/average price of aggregates for granite (RM per tonne), 2015

Negeri State	Batu pecah Crusher run	Crusher dust	Quarry waste	1/8"	3/8"	5/8"	3/4"	1"	1 1/2"	2"	3" - 4"	6" - 9"	Block
Johor	9.00- 16.00	12.50- 24.00	9.00- 16.00	-	13.50- 24.00	13.50- 22.00	16.00- 22.00	20.00- 22.00	13.00- 22.00	12.00- 22.00	12.00- 22.00	12.00- 22.00	12.00- 20.00
Kedah	12.00- 18.00	14.00- 22.00	6.00- 11.00	18.00	17.00- 25.00	16.00- 25.00	17.00- 25.00	13.00- 25.00	13.00- 25.00	13.00- 25.00	16.00- 19.00	15.00- 20.00	13.00- 19.00
Kelantan	17.30	24.00	12.40- 24.20	-	10.00- 24.00	-	17.00	21.30	-	14.00	23.20	20.60	21.00
Kuala Lumpur	-	-	-	-	-	-	-	-	-	-	-	-	-
Melaka	14.00- 17.00	20.00- 25.00	10.00	-	8.00- 12.50	-	21.00- 25.00	-	25.00	10.00- 18.00	14.00	22.00- 24.00	-
Negeri sembilan	12.00- 16.00	14.30- 20.50	10.00- 12.50	-	13.80- 22.00	-	18.00- 22.00	12.00- 22.00	17.00- 22.00	10.00- 13.00	5.00- 10.00	17.00- 19.00	-
Pahang	7.50- 28.00	7.00-30.00	13.00- 17.00	-	15.00- 36.00	-	15.00- 36.00	15.00- 24.00	18.00- 24.00	16.00- 24.00	10.00- 17.00	13.00- 33.00	16.00- 21.00
Perak	8.50- 13.00	7.50-13.00	-	-	14.00- 17.00	-	16.00- 19.00	-	-	-	-	-	-
Perlis	-	-	-	-	-	-	-	-	-	-	-	-	-
Pulau Pinang	10.00- 15.00	10.00- 18.00	4.00- 8.00	-	14.50- 22.00	20.00	15.00- 24.00	16.00- 20.00	18.00- 20.00	16.00	16.00- 21.00	13.50- 18.00	12.00
Sarawak	-	15.00	-	-	-	-	24.00	-	15.00- 16.00	15.00	14.00	-	7.00
Terengganu	14.00- 15.00	18.00- 20.00	7.00- 9.00	-	19.00- 21.00	-	19.00- 21.00	19.00- 21.00	19.00- 21.00	19.00- 21.00	-	18.00- 20.00	17.00- 20.00

Sumber : Jabatan Mineral dan Geosains Malaysia
Source : Minerals and Geoscience Department Malaysia

Julat/purata harga agregat untuk jenis batu lain (RM per tan), 2015
Range/average price of aggregates for other rock types (RM per tonne), 2015

Negeri State		Batu pecah Crusher run	Crusher dust	Quarry waste	1/8"	3/8"	5/8"	3/4"	1"	1 1/2"	2"	3" - 4"	6" - 9"	Block
Kedah	Batu kapur Limestone	10.50- 13.00	9.50	5.00-7.50	13.00	13.00	-	17.00- 18.00	-	-	-	-	10.20	-
	Kuarzait Quartzite	15.00	6.50	-	-	-	-	21.00	-	-	-	-	16.00	-
Kelantan	Batu kapur Limestone	-	30.00	-	-	28.00	-	28.50	-	-	18.30	29.00	25.50	-
Pahang	Batu kapur Limestone	13.00- 18.00	19.00- 20.00	7.50- 17.00	-	19.00- 24.00	-	20.00- 24.00	-	15.00- 17.50	17.00- 18.00	17.50- 19.00	19.00- 19.50	-
	Andesit	11.00	-	5.60	-	-	-	14.00	-	-	-	12.00	9.00	-
	Rhyolite	7.00-7.50	9.00-11.00	-	-	9.00- 15.00	-	-	10.00	-	7.00- 10.00	12.00- 13.00	-	-
Perak	Batu kapur Limestone	9.00- 12.00	9.00-12.00	-	-	12.00- 19.00	-	16.00- 19.00	-	-	-	-	-	-
Perlis	Batu kapur Limestone	14.50- 15.00	-	10.00	-	17.00- 20.00	-	16.00	-	-	-	-	12.00	12.00

Sumber : Jabatan Mineral dan Geosains Malaysia
Source : Minerals and Geoscience Department Malaysia

Julat/purata harga agregat untuk jenis batu lain (RM per tan), 2015 (Samb.)
Range/average price of aggregates for other rock types (RM per tonne), 2015 (Cont.)

Negeri State	Batu pecah Crusher run	Crusher dust	Quarry waste	1/8"	3/8"	5/8"	3/4"	1"	1 1/2"	2"	3" - 4"	6" - 9"	Block	
Sabah	Batu kapur <i>Limestone</i>	24.00	29.00	13.00	-	30.00	-	31.00	25.00	25.00	25.00	25.00	-	26.00
	Batu pasir <i>Sandstone</i>	31.00	28.00	13.00	-	33.00	-	43.00	31.00	31.00	-	30.00	32.00	29.00
	Diorite	10.00	28.00	11.00	-	30.00	-	39.00	30.00	30.00	-	11.00	19.00	25.00
	Dolerite	30.00	33.00	17.00	-	36.00	-	38.00	-	-	-	-	30.00	-
	Basalt	42.00	44.00	-	-	46.00	-	52.00	45.00	45.00	-	-	-	46.00
	Gabbro	46.00	46.00	37.00	-	46.00	-	49.00	46.00	46.00	-	-	46.00	-
Sarawak	Batu kapur <i>Limestone</i>	10.00- 18.00	5.00-16.00	4.50- 12.00	22.00	15.00- 18.00	15.00	14.00- 18.00	10.00- 18.00	8.50- 15.00	8.50- 16.00	8.00- 16.00	8.25- 13.00	8.25- 20.00
	Batu pasir <i>Sandstone</i>	14.00- 26.80	10.50- 15.00	5.00-7.50	-	16.50- 26.80	-	22.00- 26.80	14.00- 26.80	7.50	7.50- 14.50	7.50- 25.80	6.50- 22.00	20.80
	Diorite	7.00- 16.00	15.00	12.00- 15.00	-	-	-	22.00- 25.00	7.00- 15.00	7.00- 10.00	5.00- 10.00	3.00- 10.00	3.00- 9.00	80.00
	Microtonalite	8.00- 20.00	7.00-16.00	5.00- 12.00	26.00	18.00- 21.00	-	15.00- 18.00	14.00- 20.00	9.50- 13.40	9.50- 12.40	9.50- 11.00	8.50- 9.50	-
	Gabbro	15.50	14.50	11.00	-	13.00	-	-	14.50	10.00	10.00	10.00	9.00	-

Sumber : Jabatan Mineral dan Geosains Malaysia
Source : Minerals and Geoscience Department Malaysia

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**PIAWAIAN KLASIFIKASI
INDUSTRI MALAYSIA,
2008 Ver. 1.0
(SEKTOR PERLOMBONGAN
DAN PENGKUARIAN)
MALAYSIAN STANDARD
INDUSTRIAL CLASSIFICATION,
2008 Ver. 1.0
(MINING AND QUARRYING
SECTOR)**



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Piawaian Klasifikasi Industri Malaysia 2008 Ver. 1.0
Malaysia Standard Industrial Classification 2008 Ver. 1.0

Kumpulan Groups	Perkara Items	Keterangan Description	MSIC 2000
PERLOMBONGAN BATU ARANG DAN LIGNIT <i>MINING OF COAL AND LIGNITE</i>			
051		Perlombongan batu arang pepejal <i>Mining of hard coal</i>	
	05100	Perlombongan batu arang pepejal <i>Mining of hard coal</i>	10100p
052		Perlombongan lignit <i>Mining of lignite</i>	
	05200	Perlombongan lignit (batu arang perang) <i>Mining of lignite (brown coal)</i>	10100p
PERLOMBONGAN BIJI LOGAM <i>MINING OF METAL ORES</i>			
071		Perlombongan bijih besi <i>Mining of iron ores</i>	
	07101	Perlombongan bijih yang tinggi kandungan besi <i>Mining of ores valued chiefly for iron content</i>	13100p
072		Perlombongan bijih logam bukan besi (non ferrous) <i>Mining of non-ferrous metal ores</i>	
	07210	Perlombongan bijih uranium dan torium <i>Mining of uranium and thorium ores</i>	12000
	07291	Perlombongan bijih timah <i>Mining of tin ores</i>	13201
	07292	Perlombongan tembaga <i>Mining of copper</i>	13203
	07293	Perlombongan bauksit (aluminium) <i>Mining of bauxite (aluminium)</i>	13205
	07294	Perlombongan ilmenit <i>Mining of ilmenite</i>	13206
	07295	Perlombongan emas <i>Mining of gold</i>	13204

Piawaian Klasifikasi Industri Malaysia 2008 Ver. 1.0
Malaysia Standard Industrial Classification 2008 Ver. 1.0

Kumpulan <i>Groups</i>	Perkara <i>Items</i>	Keterangan <i>Description</i>	MSIC 2000
	07298	Pembilasan amang <i>Amang retreatment</i>	13202
	07299	Perlombongan bijih logam bukan besi lain t.t.t.l <i>Mining of other non-ferrous metal ores n.e.c</i>	13209p
		PERLOMBONGAN DAN PENGKUARIAN LAIN <i>OTHER MINING AND QUARRYING</i>	
081		Pengkuarian batu, pasir dan tanah liat <i>Quarrying of stone, sand and clay</i>	
	08101	Pengkuarian, pemotongan kasar bongkah batu dan batu bangunan seperti marmar, granit (dimension stone), batu pasir <i>Quarrying, rough trimming and sawing of monumental and building stone such as marble, granite (dimension stone), sandstone</i>	14101p
	08102	Pengkuarian, penghancuran dan pemecahan batu kapur <i>Quarrying, crushing and breaking of limestone</i>	14102p
	08103	Perlombongan gypsum dan anhidrit <i>Mining of gypsum and anhydrite</i>	14109p
	08104	Perlombongan kapur dan dolomite yang tidak dirawat <i>Mining of chalk and uncalcined dolomite</i>	14102p
	08105	Pengekstrakan dan penggorekan bagi industri pasir, pasir untuk sektor pembinaan dan kerikil <i>Extraction and dredging of industrial sand, sand for construction and gravel</i>	14103p
	08106	Pemecahan dan penghancuran batu dan kerikil <i>Breaking and crushing of stone and gravel</i>	14109p
	08107	Pengkuarian pasir <i>Quarrying of sand</i>	14103p, 14108
	08108	Perlombongan tanah liat, refraktori tanah liat dan kaolin <i>Mining of clays, refractory clays and kaolin</i>	14104, 14105p, 14106p
	08109	Pengkuarian, penghancuran dan pemecahan granit <i>Quarrying, crushing and breaking of granite</i>	14101

Piawaian Klasifikasi Industri Malaysia 2008 Ver. 1.0
Malaysia Standard Industrial Classification 2008 Ver.1.0

Kumpulan <i>Groups</i>	Perkara <i>Items</i>	Keterangan <i>Description</i>	MSIC 2000
089		Perlombongan dan pengkuarian t.t.t.l <i>Mining and quarrying n.e.c</i>	
	08911	Perlombongan fosfat semulajadi <i>Mining of natural phosphates</i>	14211p
	08912	Perlombongan garam kalium (potassium) semulajadi <i>Mining of natural potassium salts</i>	14219p
	08915	Perlombongan barium sulfat semulajadi dan karbonat (baryte and witerit) <i>Mining of natural barium sulphate and carbonate (barites and witherite)</i>	14107, 14290p
	08991	Perlombongan dan pengkuarian bahan pelepas (bahan kesat) <i>Mining and quarrying of abrasive materials</i>	14290p
	08994	Perlombongan dan pengkuarian grafit semulajadi <i>Mining and quarrying of natural graphite</i>	14290p
	08999	Perlombongan dan pengkuarian lain t.t.t.l <i>Other mining and quarrying n.e.c</i>	14290p
		AKTIVITI PERKHIDMATAN SOKONGAN PERLOMBONGAN <i>MINING SUPPORT SERVICE ACTIVITIES</i>	
099		Aktiviti sokongan perlombongan dan pengkuarian lain <i>Support activities for other mining and quarrying</i>	
	09900	Aktiviti sokongan perlombongan dan pengkuarian lain <i>Support activities for other mining and quarrying</i>	10100p, 12000p, 13100p, 13209p, 14109p, 14219p, 14220p, 14290p, 74212p, 74213p

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