



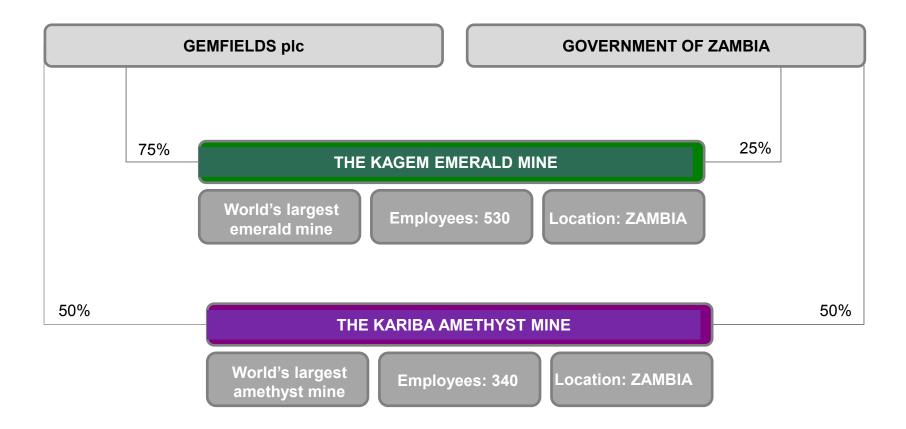
# Welcome to the Kagem Emerald Mine



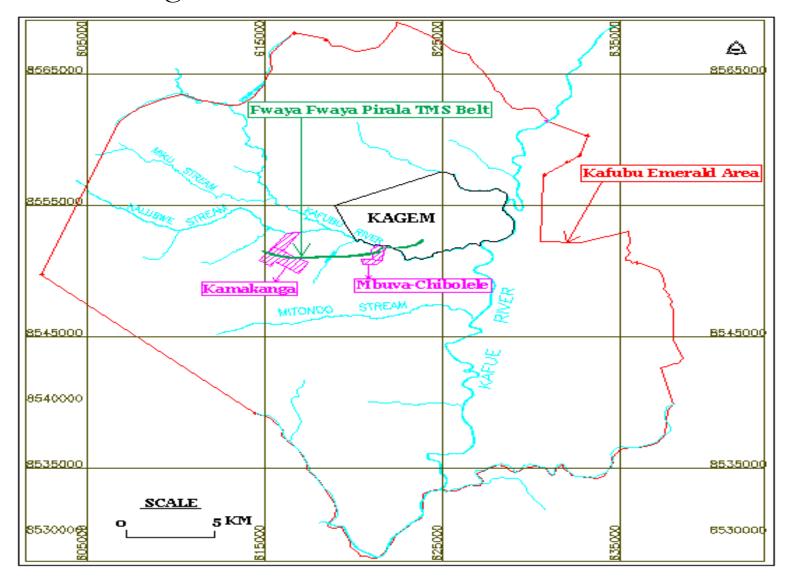


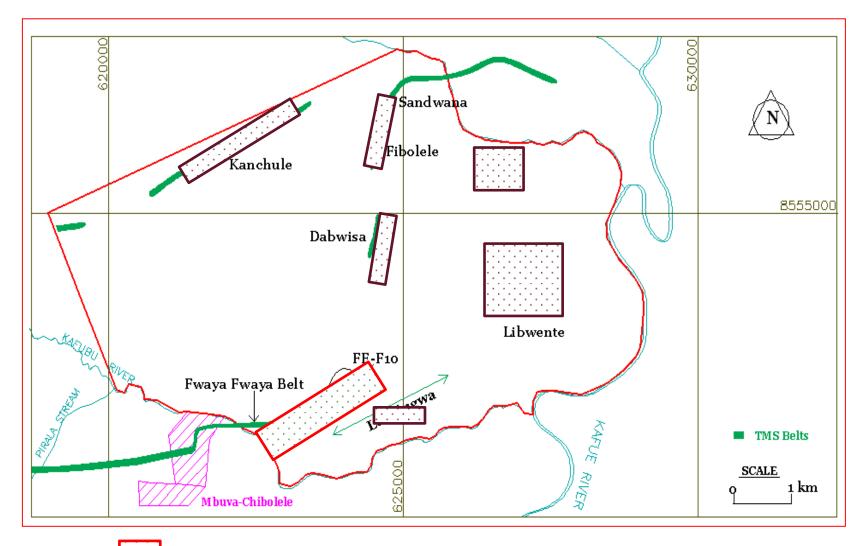


### Gemfields & The Government of Zambia A MODEL COLLABORATION



Kagem Location In Kafubu Emerald Area





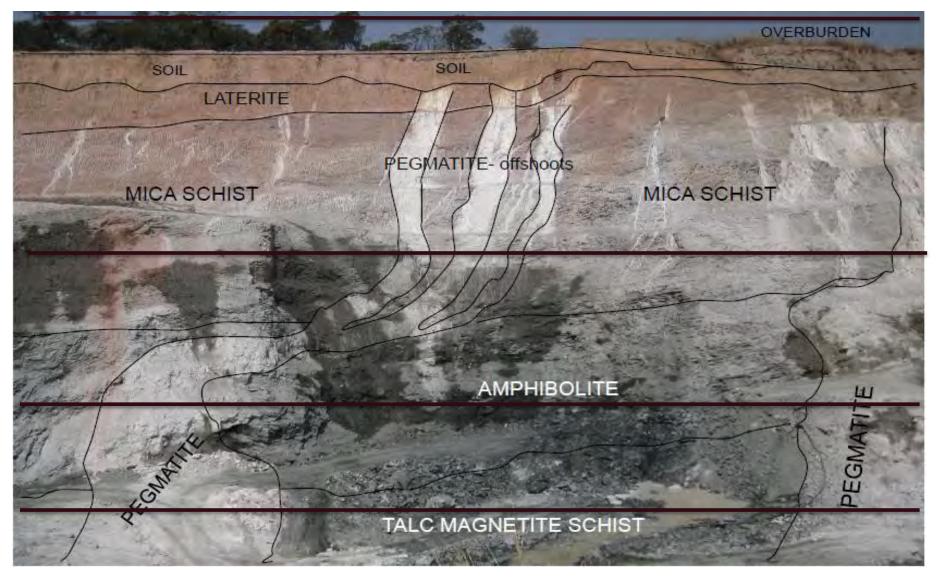
POTENTIAL AREA FOR MINING IN FUTURE

AREA ACTIVELY MINED

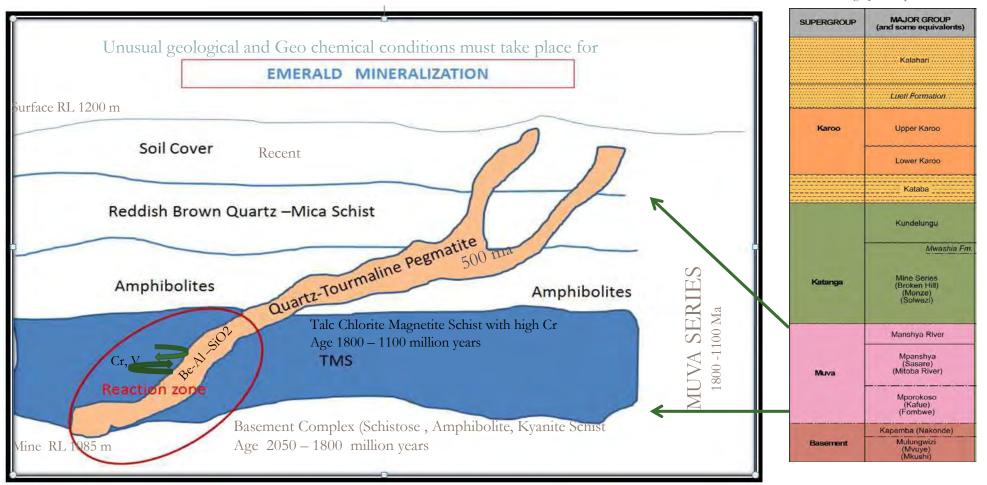


The world's single largest coloured gemstone producer

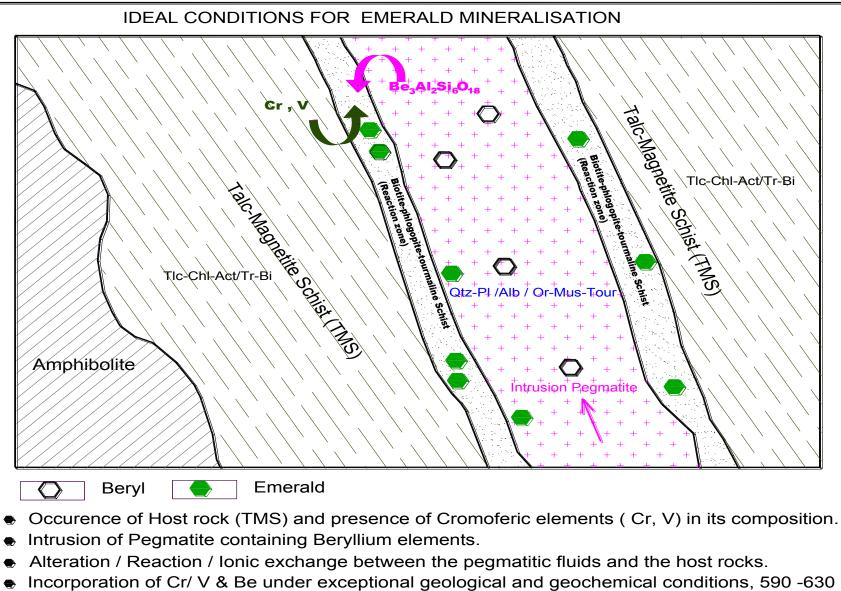
### The Pit — A Cross Section



### Emerald Mineralization Explained

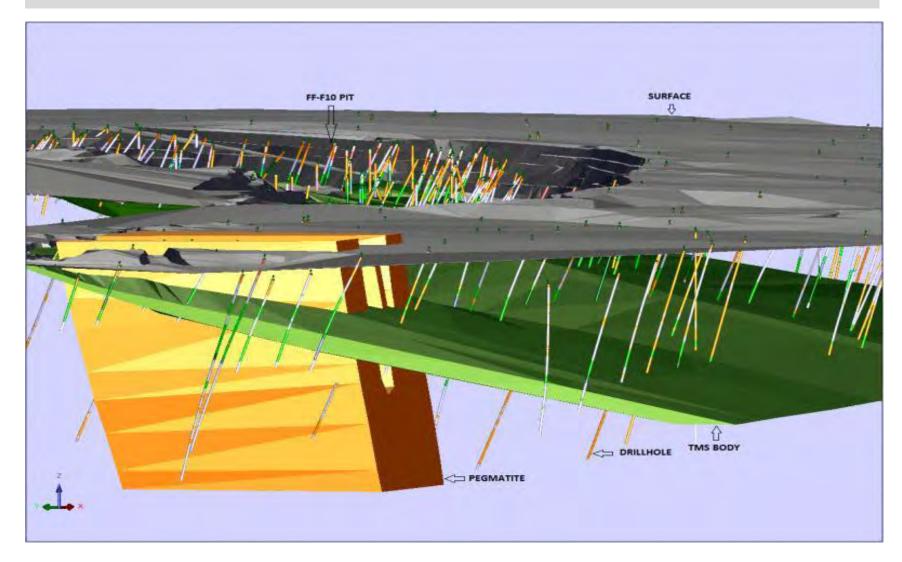


Zambia Stratigraphic Sequence



Incorporation of Cr/ V & Be under exceptional geological and geochemical conditions, 58 deg temperature and 400-600 MPa pressure results in emerald mineralisation.

### SURPAC MODEL



### Inherited Problems

- Huge waste removal backlog
- Rock handling only 125,000 tonnes p/month
- Ore handling only 3,000 tonnes p/month
- ➢ No ore at the pit bottom for production
- ➢ Very poor equipment health
- Broken Machinery was spread across the property and lay wherever they had broken down
- Ineffective security systems
- No formal reporting structures and accountability
- De-moralized management and work force
- Poor health and safety

The world's single largest coloured gemstone producer

# Pit Position in 2008 prior to Gemfields ownership



# And Today...





In-pit dumping is done in the mine — using a strip and fill method. This keeps the size of the both pit and dumps small, and ensures that the environmental liability is as low as possible.



### Pit Stability — Our Priority



# Emerald Mining at Kagem Today

- Gemfields has been investing huge amounts in millions of dollars (interest free) for sustainable development of the mine each year.
- Procurement of new fleet of mining equipment.
- 33 KV Electrification line at mine connected to the national grid at a cost of US\$ 600,000.
- Detailed mine plan finalized for five years, up till June 2014-15, now in the process of preparing the Business Plan for the next 3 / 4 years.
- Approved Environment Project Brief including EMP in place.
- Safety-Health-Environment focus: One of the many first in emerald sector.



# Emerald Mining at Kagem Today Continued...

- Kagem is now a world class mine and is a matter of pride to the work force for them to be belonging to Kagem.
- State-of-the-art Mine Planning Division: Proper benching, smooth haul roads, and improved reconciliation.
- Closer Supervision: Regular shift meetings and Pit offices for operational and maintenance crews set up at the pit top.
- Concerted effort to improve on health, environmental and safety standards.
- All employees are unionized and represented by elected representatives Collective Agreement with the Union.

# Turn Around Strategy

- Fresh Investment In All Resources. And emphasis is on improving the resource base of the mine.
- Multifold Expansion of Mining Operations TRH From 125,000 To 750,000 tonnes p/month.
- Increased Ore Mining Rate From 3,000 tonnes p/month to 8,000 tonnes p/month.
- Effective Utilization of Capital, Human and Machine Resources.
- State-of-the-Art technology in all phases of Exploration, Design, Planning, Mining, Processing and Security.
- Standardisation and Benchmarking of processes with Standard Operating Procedures In Place.

# Turn Around Strategy

- Collective Agreement with Union completed and implemented for the year 2012-2014, effective from 1<sup>st</sup> April 2012.
- Kagem was one of the first companies in Zambia to implement the Collective Agreement in time.
- Earlier only 19 employees were covered in the Collective Agreement. Due to the Management's initiative, all are covered and fall under one umbrella, all are unionized and represented by elected representatives. All the employees are now on renewable 5 year contracts as opposed to the earlier 2 year contracts.
- The Management had to spend \$1.2 million in addition to its normal monthly expenditure after the successful negotiations in harmonizing the labor force at a time when the company was in a position of a cash crunch.
- The National leadership of the union has commended the efforts of the Management in this regard
- The company sponsored a couple of workshops for the Union Branch Representatives and shop stewards to understand their role better
- Various HR policies like Group Recruitment Policy, Group Leave Policy, Group Redundancy Policy, Group Disciplinary Policy & Procedure and Group Grievance & Complaints Policy have been implemented

# Emerald Mining At Kagem



Manual Mining

Mechanised Mining

The world's single largest coloured gemstone producer

# Pilot Underground Project



- The First professional underground Emerald mining attempt in Zambia.
- To understand and develop the Geotechnical/Geological setup for large scale underground operation.
- Existing underground operation includes 400m long adit and six cross cuts to mine emerald.
- SRK feasibility study for large scale underground operation at main pit completed

### The Results

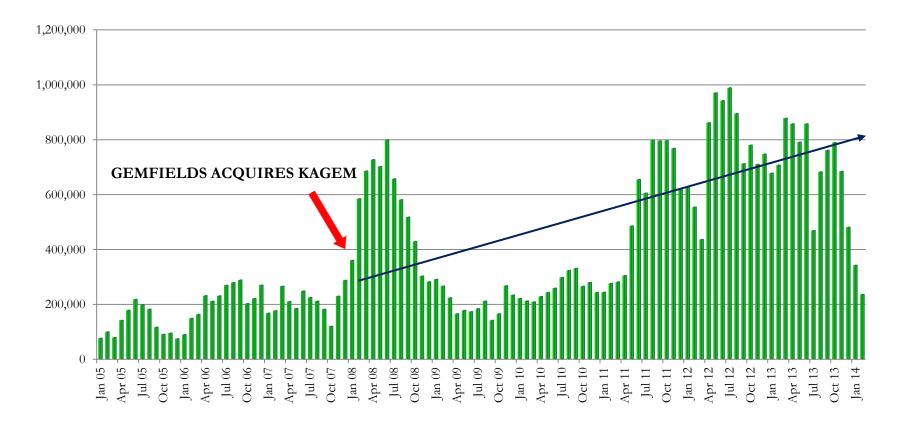
- Gemfields is committed to the long-term re-capitalisation of the Kagem mine, and after an investment in excess of K580 million (US\$ 108 million) till June 2013, it continues to re-invest around K150 million (US\$ 27 million) into the mine each year.
- This policy has been directly responsible for Kagem's success in recent years, ensuring that Kagem and Zambia as a Nation – is increasingly recognised as a global leader in the coloured gemstone industry, and allowing Kagem to become the single largest emerald industry contributor to Zambia's National Economy, despite it being just one of Zambia's numerous registered emerald producers and exporters.
- The approach has already turned Kagem around, from a long history of loss making to one where it has been able to increase achievable prices on the global markets almost tenfold and where it has been able to contribute more than KR 687 million (US\$ 127 million) to Zambia's direct foreign earnings over the past three years alone.
- All these earnings have been repatriated back to Zambia, where they have been used to settle old debts inherited from the previous management and continually reinvest in the Kagem mine and the global marketing of Zambian emeralds.
- ➢ It paid Corporate Tax for the first time in the history of Kagem.
- ➢ It paid Dividends to its shareholders for the first time in the history of the company.

### The Results Continued...

- Transparency introduced in emerald auction procedure by inviting Zambian Government stake holders, for eg, representatives from the Ministry of Finance and the Ministry of Mines to participate in the auctions. The Director on the Board of Kagem, nominated by the Zambian Government, witnesses and approves the auction results in a Board Meeting before the official announcement of the results.
- Enhanced revenue through sales strategy & marketing.
- ▶ New sorting and grading system introduced in the company to increase sales revenue.
- Zambia's image has improved immensely in the world market. Zambian emeralds are most sought after by the buyers now.
- Emphasis is on improving the resource base of the mine.
- Increased exploratory drilling, mapping of all pegmatites and resource calculations using mining software has improved the technical input of the mine.

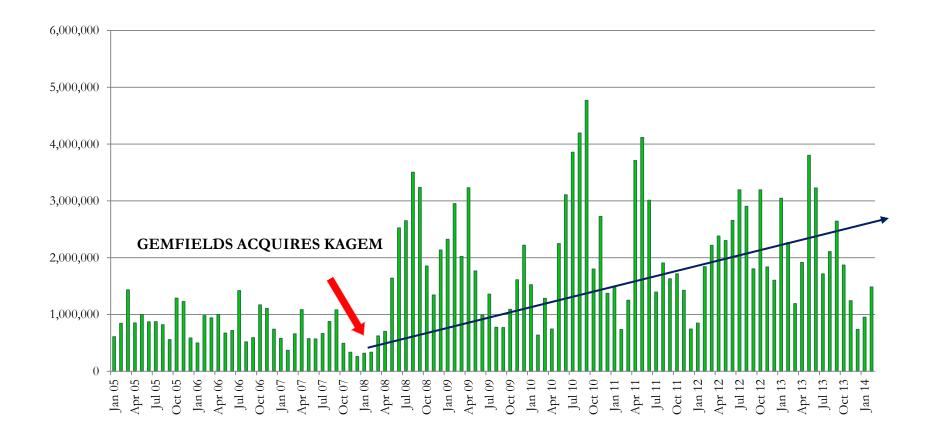
# Kagem – The World's Largest Emerald Mine

Kagem Total Rock Handling (tonnes)

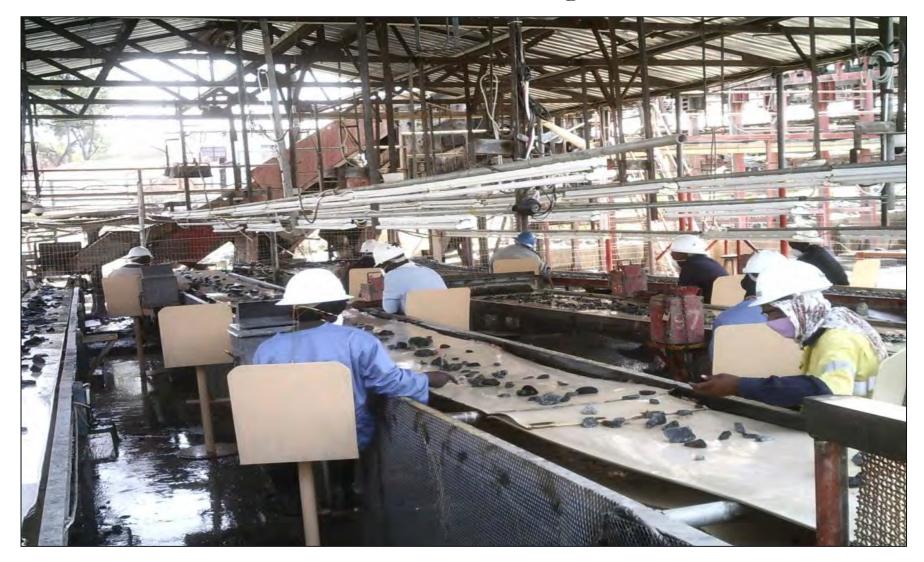


Recently, Kagem has been moving around 750,000 tonnes per month.

# Kagem Monthly Gemstone Production (Carats) Emerald & Beryl



### Wash Plant At Kagem

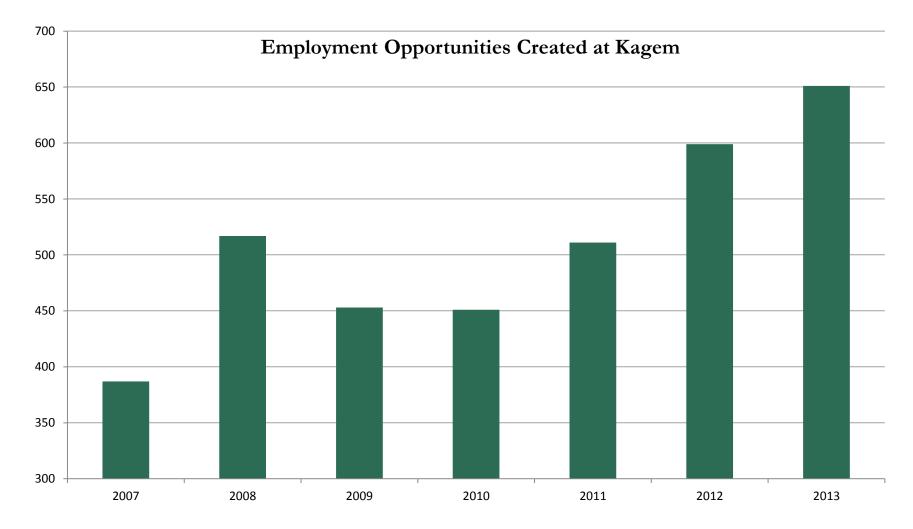


# Value addition — Grading Zambian Emeralds at Kagem

- First time a Grading system is formulated by Kagem For Zambian Emerald.
- This has helped the customer to get consistent supply Of the Zambian emerald for their product.



# Value Addition — Local Employment



# Transparency — We Publish Everything

#### AUCTION RESULTS (HIGHER QUALITY)

Details	JUL `09	NOV `09	JUL `10	DEC `10	JUL `11	MAR `12		JUL `13	FEB '14
	00 04 T 1 100	23-27 Nov	40.00 1.1.10	( 40 D ) 10	44 4F T 1 144	40.00.16	29 Oct - 2	45 40 7 1 140	
Dates	20-24 Jul `09	<u>`09</u>	19-23 Jul `10	6-10 Dec `10	11-15 Jul 11	19-23 Mar `12	Nov `12	15-19 Jul `13	21-25 Feb '14
Location	London, UK	Johannesbur g, SA	London, UK	Johannesbur g, SA	Singapore	Singapore	Singapore	Lusaka	Lusaka
	Higher	Higher	Higher	g, 5A Higher	Higher	Higher	Higher	Higher	Lusaka
Туре	Quality	Quality	Quality	Quality	Quality	Quality	Quality	Quality	Higher Quality
	<b>C</b>	<b></b>	<b></b>	<b></b>	<b></b>	<b>(</b>	<b>C</b>		g <b>、</b>
Carats offered (million)	1.36	1.12	0.85	0.87	1.07	0.77	0.93	0.58	0.84
Carats sold (million)	1.36	1.09	0.8	0.75	0.74	0.69	0.9	0.58	0.62
No. of companies placing bids	23	19	37	32	38	29	35	36	34
Average no. of bids per lot	10	13	18	16	16	11	11	8	13
No.of lots offered	27	19	27	19	25	23	19	18	17
No. of lots sold	26	14	24	18	18	20	16	18	15
Percentage of lots sold	96%	74%	89%	95%	72%	87%	84%	100%	88%
Percentage of lots sold by									
weight	99.80%	97%	94%	86%	69%	89%	98%	100%	74%
Percentage of lots sold by value	82%	76%	87%	99%	91%	94%	90%	100%	86%
Total sales realised at auction									
(US\$ Million)	5.9	5.6	7.5	19.6	31.6	26.2	26.8	31.5	36.5
	USD	USD	USD	USD	USD	USD	USD	USD	
Average per carat sales value	4.40/carat	5.10/carat	9.35/carat	26.20/carat	42.71/carat	38.25/carat	29.71/carat	54.00/carat	USD 59.31/carat

The world's single largest coloured gemstone producer

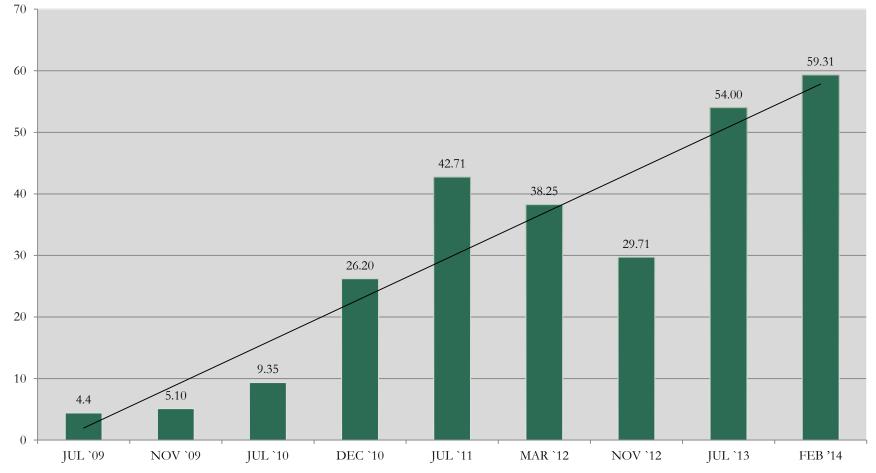
#### AUCTION RESULTS (LOWER QUALITY)

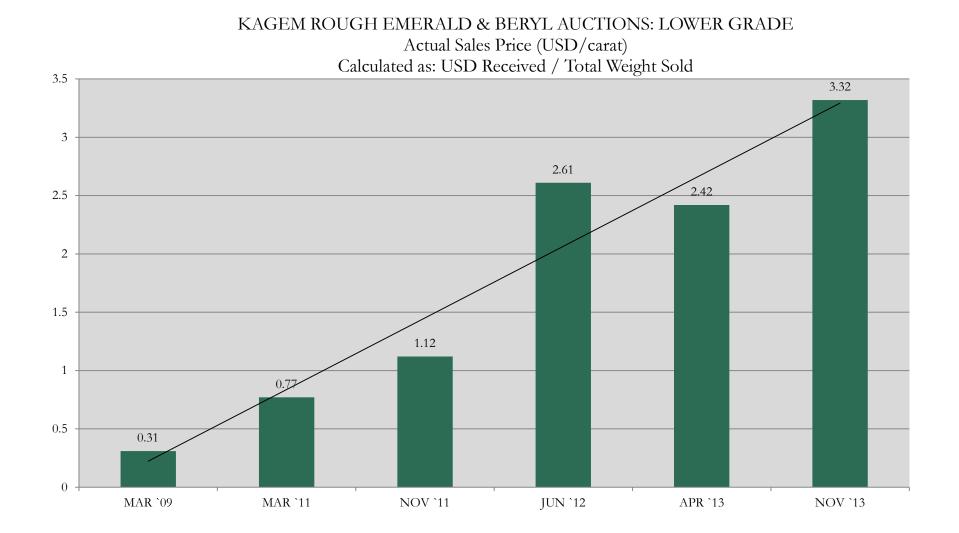
Details	MAR `09	MAR `11	NOV `11	JUN `12	APR `13	NOV `13
Dates	11-15 Mar 2010	10-14 Mar 2011	21-25 Nov 2011	9-13 Jun 2012	15-19 Apr 2013	11-15 Nov 2013
Location	Jaipur, India	Jaipur, India	Jaipur, India	Jaipur, India	Lusaka, Zambia	Lusaka, Zambia
Туре	Lower Quality					
Carats offered*	28.90 million	16.83 million	10.83 million	10.85 million	17.34 million	5.62 million
Carats sold (million)	22.8	12.98	9.82	3.47	6.3	4.94
No. of companies placing bids	25	44	27	20	25	20
Average no. of bids per lot	8	14	9	3	6	7
No.of lots offered	56	35	26	33	28	21
No. of lots sold	49	34	19	17	23	19
Percentage of lots sold	88%	97%	73%	52%	82%	90%
Percentage of lots sold by weight	79%	77%	91%	32%	36%	88%
Percentage of lots sold by value	89%	76%	87%	99%	91%	91%
Total sales realised at auction (US\$ million)	7.2	10	11	9	15.2	16.4
Average per carat sales value	USD 0.31/carat	USD 0.77/carat	USD 1.12/carat	USD 2.61/carat	USD 2.42/carat	USD 3.32/carat

#### Bottom Line — We need to move 5 million units of rock to get 1 unit of gemstones!

# Kagem's Auction Process Is Working

KAGEM ROUGH EMERALD & BERYL AUCTIONS: HIGH GRADE Actual Sales Price (USD/carat) Calculated as: USD Received / Total Weight Sold



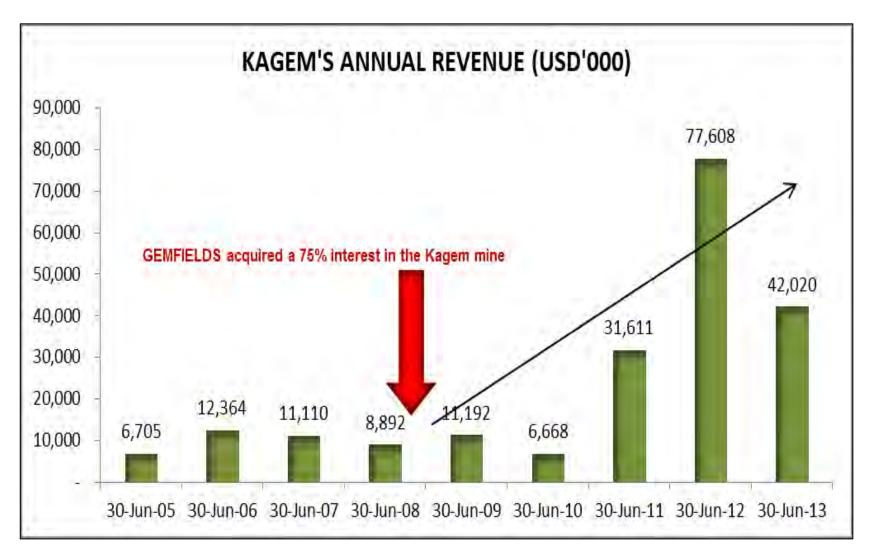


# Safety First — An Outstanding Safety Record

More than Two Million Eight Hundred injury free man-shifts recognised by the Mines Safety Department

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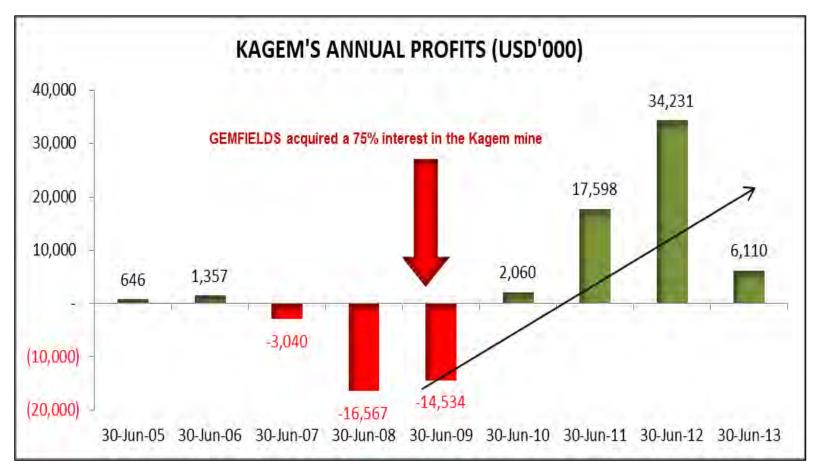
# Kagem Revenues



## Royalties Paid to Zambian Revenue Authority



# Kagem Profits - The Ultimate Measure of Local Value Addition



Clear local value addition demonstrated

(i) Grading and Sorting (ii) Reliability (iii) Marketing (iv) Service

The first ever dividend paid by Kagem in its 29 year history and the first such payment to the Government of Zambia from any gemstone operation in Zambia.



Minister of Finance, Government Republic of Zambia, Hon. Alexander Chikwanda receives a K10.94m dividend cheque from Kagem Mining Chairman William B Nyirenda, flanked by the company's Director Operations CV Suresh, Head-Finance Irvine Mwitwa.

## Corporate Social Responsibility

The CSR policy aims to ensure that our projects enjoy the maximum possible impact through adopting a sustainable long term strategy including all the stakeholders — but most importantly the local population.

- Major stakeholders include traditional establishment, all government departments with particular interest, District Commissioner's Office, Local Council, certain Community and Faith Based Organizations, farm groups, etc.
- This is aligned to our approach to government policies, objectives, targets, outlined in the Millennium Development Goals and The Vision 2030.

The company has identified, together with the community, areas that would be supported. These sectors include the following:

- Education (Chapula Basic School, Kapila Community School, and Kafwaya Memorial Community School)
- Health (Nkana Clinic, Pilala Health Centre, and CHAMP)
- Food Security and Agriculture (Blessing Green Farms Cooperative, and Kapila Green Farms Cooperative)
- Culture through its traditional establishment (Chief Nkana and Chief Lumpuma's Palace, respectively)
- We have spent an excess over USD 500,000 up to now

The Company has various projects with aim to help the local community. The Company has a full fledged Community Project Coordinator in place for effective implementation.

School at Kapila & Chapula





Primary Medical Facility at Nakana



Farmers at the Blessing Farms & Kapila Green Farms, fully supported by Kagem.





## Future Plans

- A 2 year plan and budget totalling over US\$ 1,200,000 targeting a host of projects including:
- Conversion of Chapula Basic School into a Secondary School
- Introduction of a "Skills" school in Lufwanyama close to the mine.
- Grading of the rural road between Chief Lumpuma's region to the current road accesses.
- 3 Nurses Quarters at the Nkana Clinic;
- The 4-ward Building at the Nkana Clinic;
- Construction / Rehabilation of a Lower Court Building in Nkana Village;
- Erection of a bridge across the Kafubu River;

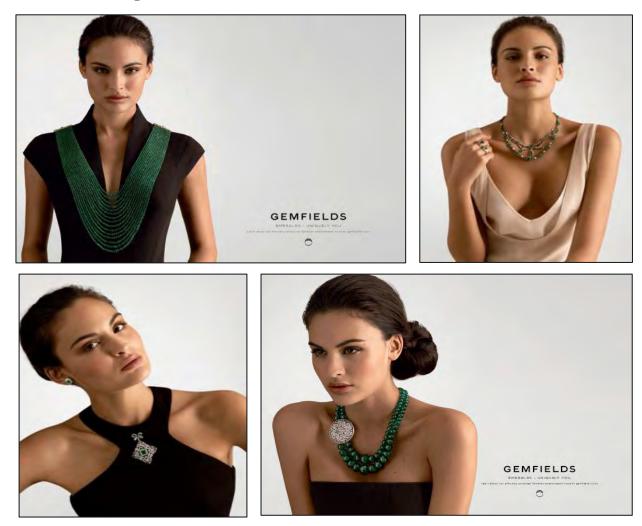
## Marketing & Promotion

Our First Advertising Campaign



## Global Advertising Campaign

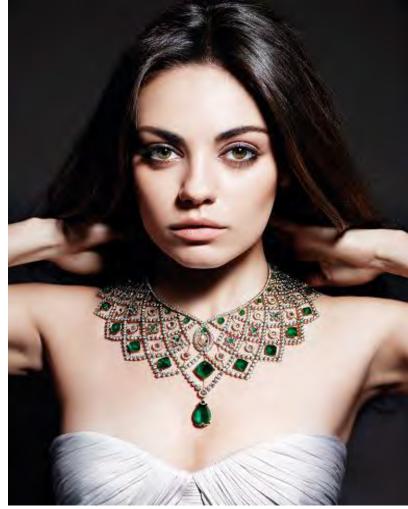
Promoting Zambian Emeralds & Downstream Stakeholders



## 2013 Advertising Campaign

- Mila Kunis appointed as global brand ambassador
- Mila visited Zambia and Kagem in January 2013
- Subsequent launch event generated tremendous coverage





## Marketing Initiatives & Press Coverage



## Marketing Initiatives & Press Coverage



## Zambian Emeralds on the World Stage





**IN THE LOUPE | EMERALDS** 

## The jewel in Zambia's crown

Outstanding Results for Gemfields Rough Zambian Emerald

Zambian emeralds are a natural rich green and cheaper than their Colombian counterparts. Producer Gemfields explains why every jeweller should be selling these precious gems

#### Professional lewellercom

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Gemfields brings Zambian emeralds to UK and Europe



The green allure of Zambia's ethical emerald mines

*The world's single largest coloured gemstone producer* 

# 

Gemfields hosts successful Zambian emerald auction

## FINANCIAL TIMES

Watches & Jewellerv

#### Group leads charge for ethical emeralds

prison number. Bulgari's advertising features

actress Julianne Moore sporting

ity-owned by Pallinghurst,

Gemfields Claire Adler reports on a company trying to do the right thing

actress Julianne Moore sporting teardrop emrald e a r r i n g s priced at 32m, while P i ag et i s a t e s t offerings include a watch emblazoned with an em-erald encrusted United Arab Emirates flag. Genfields is leading the charge in ensuring a consistent supply chilly control to an general within the provide a stransparent have followed a transparent parts followed a stransparent I n the next few weeks, Emer-alds for Elephants - a col-laboration between the World Land Trust, Gemfields, the ethical emerald mining comany and eight world class jewroute from mine to market. pany, and eight world-class jew-ellery designers - is putting on display eight life-size fibreglass elephants draped in emerald jewels in the Wonder Room at Selfridges, the London depart-world cless. London-listed Gemfields is majority-owned by F a global natural re vestment group that also owns a stake in Faberge. It is the first emerald company ment store. The collection forms part of a

260-strong decorated elephant 'We take parade across London until July, responsibility for which has been billed as the city's largest public art exhibithe product we Elephants designed by the Elephants designed by the Eless of Joanna Lumley, Camilla Parker-Bowies, Aniah Kapoor and Alice Temperley grace ven-ues, including Green Park, Har-ues, Coutar preception and Burl-ton, Coutar preception and Burl-

to encompass exploration, minngton Arcade. The eight jewellers invited to roduce bespoke jewels featur-ng Gemfields' Zambian emer-the eight jewellers invited to ng Gemfields' Zambian emerlds include Sabine Roemer, the weller and sculptor. past 10 months at three Gem-fields rough emerald auctions,

alds include Sabine Roemen, the gest I union this at Unive General Her Emerald Queen design, a her Amerald Queen design, a her designer, and emerald attribute herdpices incorporating a 763 buying companies have with nessed finathant new standards fetch ha highest price whan the elephants ago on the block at So-tency of supply.<sup>2</sup> We take responsibility for the The auction will raise money or the World Land Trust's Indiproduct we deliver to clients and

the manner in which it is mined. an Elephant Corridor project, safeguarding migratory routes for elephants that are critical to for eighnant bias are critical to the mino of origin and route to the framework. All this comes at a time when the tarburd for emprove horizont to the strategy of the tarburg of owgrade emeralds. The emerald market also lacks Next month Gemfields holds a joint marketing initiatives and

vext month comments noises Londor saile of Im carats of higher quality rough emeralds for top rough buyers from India Israel and Germany. At the Oceans wards overno-my Morgan Freeman donnad my Morgan Freeman donnad a Birael, and Birael, and Birael, and Birael, and Birael, and Isabine Noamer emeraldater crusts

ed 46664 Bangle, named after mine in Zambia, is now ad

CIBJO, the World Jewellery Con-federation, and founder of In-Color, the International Colored Nelson Mandela's Robben Island ing important problems faced by the industry. Small-scale or artisanal miners live from hand to mouth and sel **Gemstone** Association's maga emeralist at low prices to unscru-pulous middlemen or dealers. Injuries and deaths occur when arrisana. Illegal or underfunded or and again, occurs to the second and capital, occurs to turnols. Environmental issues arise when smaller-scale operators finit to undertake the intricate process of restoring and ro-veg catting mines after operations taking of ether skills or funding. "The Kagem mine has set new emeralds at low prices to unscru-A system of warranties cert fies the origin and ethical heri-tage of Gemfields emeralds to the end customer. Gemfields is the end customer. Gemtieids is establishing a buying operation in Zambia to purchase emeralds in the local market at fair value. The company says it is also building and supporting the Nkana Clinic; donating furni-

ture and educational materials for two schools, constructing a "The Kagem mine has set new three-classroom building at an benchmarks in onmine infraother school and donating bicy structure, personal protection equipment, staff accommoda-tion and medical facilities" says Mr Harebottle. cles for teachers at all three schools. The Kagem mine also supports local agriculture by buying veg-etables at prevailing market prices. The number of co-opera-tion for seven mounth, because tion and medical facilities says Mr Harebottle. "In the Kitwe area, emeraid smuggling from mines has been a persistent problem, mostly by Comparison crossing the birder

prices. The number of co-opera-tive farmers recently increased from six to 10. The mine is committed to Aids Senegalese crossing the border. Gemfields is tackling this," he says. "Deaths usually occur in small prevention and is promoting

tourism at Lake Kashiba, one of "Deaths usually occur in small scale operations because of lack of oversight and safety mea-sures. "Once a mine is run prop-erly, as is re p or t ed l y happen-ing un d e r Gemfields manage-ment, then this sort of thing concernity because un aveca gwe district, where efforts in-clude improving the approach road.

road. "Gemfields is the industry dar-ling – it leads the pack in re-sponsible emerald mining," says Mr Almor. generally becomes an excep-tion," says Ya'akov Almor, at





#### Green makes a dazzling return

Emandel, Incas Incas hat excellenge the single-are peting a manufally lace-lift



Gemfields unveils exquisite Zambian Emeralds

You Tube

## THE TIMES



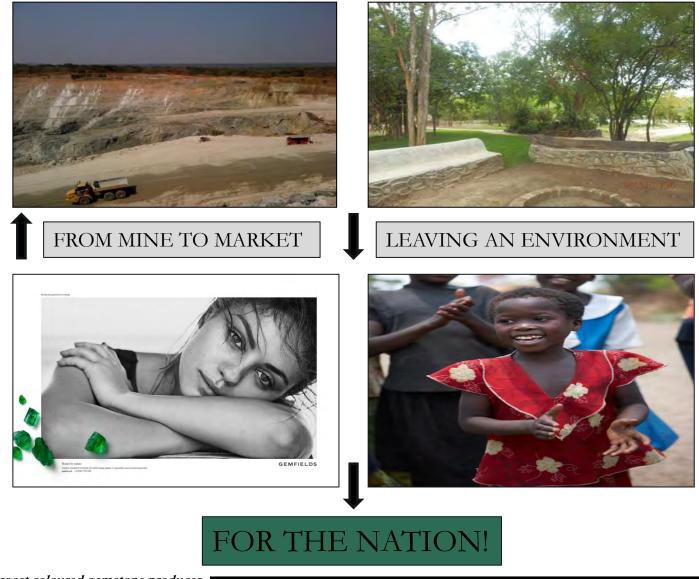
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MADHURI DIXIT UNVEILS ZAMBIAN EMERALDS

Browse

TV Shows

## Gemfields & Government



The world's single largest coloured gemstone producer