

Production and Reserves Summary

Copper

Copper production summary

Facility	Product	Year ended 31 March 2013 mt	Year ended 31 March 2012 mt
Tuticorin	Copper anode	349,845	327,703
	Sulphuric acid	1,060,519	1,026,471
	Phosphoric acid	119,793	153,243
	Copper cathode	191,858	169,448
Silvassa	Copper rods	52,404	44,961
	Copper cathode	161,296	156,428
KCM	Copper rods	119,451	116,460
	Copper cathode	216,059	199,765

Copper mining summary

Mine	Type of mine	Ore mined		Copper concentrate		Copper in concentrate	
		31 March 2013 mt	31 March 2012 mt	31 March 2013 mt	31 March 2012 mt	31 March 2013 mt	31 March 2012 mt
Mt Lyell (CMT)	Underground	2,519,464	2,067,407	107,212	85,336	26,047	22,607
Konkola (KCM)	Underground	8,987,373	9,064,821	345,804	298,979	106,462	99,208

Copper mine resource and reserve summary

Mine	Type of mine	Resources				Reserves	
		Measured and indicated million mt	Copper grade %	Inferred million mt	Copper grade %	Proved and probable reserves million mt	Copper grade %
Mt Lyell (CMT)	Underground	10.7	1.12	24.0	1.15	8.9	1.20
Konkola (KCM)	Underground	130.8	1.91	318.4	3.12	317.8	1.26

Resources are additional to Reserves

Aluminium, alumina and bauxite

Aluminium production summary

Company	Year ended 31 March 2013 mt	Year ended 31 March 2012 mt
BALCO	246,989	245,654
VAL	527,037	429,723

Alumina production summary

Company	Year ended 31 March 2013 mt	Year ended 31 March 2012 mt
VAL	527,052	927,516

Bauxite production summary

Company	Year ended 31 March 2013 mt	Year ended 31 March 2012 mt
BALCO – Mainpat	230,137	620,223
BALCO – Bodai Daldali	705,870	882,300

Production and Reserves Summary continued

Bauxite mine resource and reserve summary

Mine	Resources				Reserves	
	Measured and indicated million mt	Aluminium grade %	Inferred million mt	Aluminium grade %	Proved and probable reserves million mt	Aluminium grade %
BALCO						
Mainpat	5.2	48.9	0.3	49.0	3.1	46.4
Bodai-Daldali	5.6	46.8	0.6	48.0	3.1	45.8
Total BALCO	10.8	47.8	0.9	48.3	6.2	46.1
MALCO						
Kolli Hills and Yercaud	0.8	44.0			0.2	43.0

Resources are additional to Reserves.

Zinc and lead

Zinc and lead production summary

Company	Year ended 31 March 2013 mt	Year ended 31 March 2012 mt
HZL		
Zinc	676,921	758,716
Lead	118,316	92,099

Zinc and lead mining summary

a) Metal mined and metal concentrate

Mine	Type of mine	Ore mined		Zinc concentrate		Lead concentrate		Bulk concentrate	
		31 March 2013 mt	31 March 2012 mt	31 March 2013 mt	31 March 2012 mt	31 March 2013 mt	31 March 2012 mt	31 March 2013 mt	31 March 2012 mt
Rampura Agucha ¹	Open cut	6,177,679	5,947,081	1,334,412	1,261,570	110,441	101,629	–	–
Rajpura Dariba	Underground	554,354	587,600	39,860	41,512	9,164	9,425	13,623	20,003
Sindesar Khurd	Underground	1,585,150	1,303,050	101,480	100,683	60,164	49,455	–	–
Zawar	Underground	304,680	204,150	–	–	–	–	21,745	22,007
Total		8,621,863	8,041,881	1,475,752	1,403,765	179,769	160,509	35,368	42,010

¹ Includes development ore 28,255 MT from Kayar.

b) Metal in Concentrate (MIC)

Mine	Type of mine	Zinc concentrate		Lead concentrate	
		31 March 2013 mt	31 March 2012 mt	31 March 2013 mt	31 March 2012 mt
Rampura Agucha	Open cut	677,269	649,583	65,631	59,898
Rajpura Dariba	Underground	25,183	27,791	5,102	5,547
Sindesar Khurd	Underground	52,602	51,147	32,156	25,141
Zawar	Underground	9,587	10,048	2,640	1,277
Total		764,671	738,569	105,529	91,863

Zinc and lead mine resource and reserve summary

Zinc India

Mine	Resources						Reserves		
	Measured and indicated million mt	Zinc grade %	Lead grade %	Inferred million mt	Zinc grade %	Lead grade %	Proved and probable reserves million mt	Zinc grade %	Lead grade %
Rampura Agucha	17.3	15.0	2.0	28.8	11.3	2.0	62.7	13.6	1.8
Rajpura Dariba	11.4	7.2	2.4	29.2	7.6	2.0	10.6	6.5	1.6
Zawar	24.2	5.0	1.8	42.7	4.8	2.6	9.5	3.7	2.0
Kayar	5.2	10.4	1.6	0.7	6.6	1.1	5.4	10.0	1.5
Sindesar Khurd	10.9	5.1	2.5	52.7	4.3	3.1	21.4	4.5	2.5
Bamnia Kalan	5.4	4.5	1.6	10.2	3.9	1.7	–	–	–
Total	74.4	8.0	2.0	164.3	6.3	2.5	109.7	10.1	1.9

Resources are additional to Reserves.

Zinc International

Mine	Resources						Reserves		
	Measured and indicated million mt	Zinc grade %	Lead grade %	Inferred million mt	Zinc grade %	Lead grade %	Proved and probable reserves million mt	Zinc grade %	Lead grade %
Skorpion	5.7	9.73	–	–	–	–	5.7	9.26	–
BMM									
– Deeps	13.5	2.80	3.28	–	–	–	10.4	2.86	2.98
– Broken Hill	–	–	–	–	–	–	–	–	–
– Swartberg	10.4	0.85	3.79	23.0	1.03	3.70	–	–	–
– Gamsberg	100.7	6.73	0.54	85.6	7.06	0.31	–	–	–
Lisheen	2.2	14.10	2.27	0.4	14.85	3.95	2.3	11.56	1.67

Resources are additional to Reserves.

Zinc production summary

Company	Year ended 31 March 2013 mt	Year ended 31 March 2012 mt
Skorpion	145,342	144,755

Zinc and lead mining summary

a) Metal mined and metal concentrate

Mine	Type of mine	Ore mined		Zinc concentrate		Lead in concentrate	
		31 March 2013 mt	31 March 2012 mt	31 March 2013 mt	31 March 2012 mt	31 March 2013 mt	31 March 2012 mt
Skorpion	Underground	1,664,282	1,676,001	–	–	–	–
BMM	Underground	1,518,540	1,434,088	78,457	64,682	68,986	74,645
Lisheen	Underground	1,458,396	1,397,697	317,413	343,196	39,129	49,053
Total	Underground	4,641,218	4,507,786	395,870	407,878	108,115	123,698

b) Metal in Concentrate (MIC)

Mine	Type of mine	Zinc concentrate		Lead concentrate	
		31 March 2013 mt	31 March 2012 mt	31 March 2013 mt	31 March 2012 mt
BMM	Underground	38,577	31,770	48,883	53,579
Lisheen	Underground	169,485	183,206	23,407	30,202
Total		208,062	214,976	72,290	83,781

Iron ore

Iron ore production summary

Company	Year ended 31 March 2013 million mt	Year ended 31 March 2012 million mt
Sesa Goa		
Saleable Iron Ore	4.2	15.6
Goa	3.1	11.0
Karnataka	–	1.1
Orissa	–	–
Dempo	1.1	3.5



Production and Reserves Summary continued

Iron ore resource and reserve summary

Mine	Resources				Reserves	
	Measured and indicated million mt	Iron ore grade %	Inferred million mt	Iron ore grade %	Proved and probable reserves million mt	Iron ore grade %
Sesa Goa	152.25	52.17	80.4	45.87	200.41	55.37
Western Cluster	34.4	37.49	790.0	33.00	141.65	34.67

Comprises mines that Sesa owns or has rights to.
Resources are additional to Reserves.

Oil & gas

The oil & gas reserves data set out below are estimated on the basis set out in the section headed 'Presentation of Information'.

Cairn India

Estimates of the gross proved, probable, and possible oil, condensate, and sales-gas reserves, as of 31 March 2013, attributable to certain properties owned by Cairn India, are summarised by field below, expressed in 10³bbl of oil and condensate and 10⁶ft³ of sales gas:

Fields	Gross Reserves					
	Proved		Probable		Possible	
	Oil and condensate (10 ³ bbl)	Sales gas (10 ⁶ ft ³)	Oil and condensate (10 ³ bbl)	Sales gas (10 ⁶ ft ³)	Oil and condensate (10 ³ bbl)	Sales gas (10 ⁶ ft ³)
CB-OS/2 PSC						
– CB-X	–	–	–	–	–	–
– Gauri	315	1,605	223	1,818	429	3,915
– Lakshmi	7,180	6,462	6,197	7,801	7,443	10,686
CB-OS/2 PSC Total	7,495	8,067	6,420	9,619	7,872	14,601
RJ-ON-90/1 PSC						
– Aishwariya	27,453	–	374	–	432	–
– Bhagyam	52,420	–	25,523	–	11,944	–
– Mangala	243,839	–	47,111	–	25,611	–
NE	1,278	–	610	–	158	–
NI	1,161	–	275	–	120	–
– Raageshwari Shallow	1,919	–	1,234	–	5,378	–
– Raageshwari Deep	1,269	–	254	–	–	–
– Saraswati	787	–	404	–	871	–
RJ-ON-90/1 PSC Total	330,126	–	75,785	–	44,514	–
PKGM-1 Licence						
– Ravva	17,642	44,039	9,988	16,963	13,327	5,401
Grand Total	355,263	52,106	92,193	26,582	65,712	20,002

Note: Probable and possible reserves have not been risk adjusted to make them comparable to proved reserves.

Estimates of the proved, probable, and possible oil, condensate, and sales-gas reserves, as of 31 March 2013, attributable to the working interests of certain properties owned by Cairn India, are summarised by field below, expressed in 10³bbl of oil and condensate and 10⁶ft³ of sales gas:

Fields	Working Interest Reserves Summary					
	Proved		Probable		Possible	
	Oil and Condensate (10 ³ bbl)	Sales Gas (10 ⁶ ft ³)	Oil and Condensate (10 ³ bbl)	Sales Gas (10 ⁶ ft ³)	Oil and Condensate (10 ³ bbl)	Sales Gas (10 ⁶ ft ³)
CB-OS/2 PSC						
– CB-X	–	–	–	–	–	–
– Gauri	126	642	89	727	172	1,566
– Lakshmi	2,872	2,585	2,479	3,120	2,977	4,274
CB-OS/2 PSC Total	2,998	3,227	2,568	3,847	3,149	5,840
RJ-ON-90/1 PSC						
– Aishwariya	19,217	–	262	–	302	–
– Bhagyam	36,694	–	17,866	–	8,361	–
– Mangala	170,687	–	32,978	–	17,928	–
NE	895	–	427	–	111	–
NI	813	–	193	–	84	–
– Raageshwari Shallow	1,343	–	864	–	3,765	–
– Raageshwari Deep	888	–	178	–	–	–
– Saraswati	551	–	283	–	610	–
RJ-ON-90/1 PSC Total	231,088	–	53,051	–	31,161	–
PKGM-1 Licence						
– Ravva	3,969	9,909	2,247	3,817	2,999	1,215
Grand Total	238,055	13,136	57,866	7,664	37,309	7,055

Note: Probable and possible reserves have not been risk adjusted to make them comparable to proved reserves.

Source of information

In respect of all businesses, the information has been certified by an in-house geologist on behalf of Group management.

Basis of preparation

Ore reserves and mineral resources reported herein comply with the 'Australasian Code for Reporting of Identified Mineral Resources and Ore Reserves', other than those relating to Konkola Copper Mines plc ('KCM') which complies with the South African Code for Reporting of Mineral Reserves and Mineral Resources (the 'SAMREC Code'). The former code is prepared by the Joint Ore Reserves Committee of the Australasian Institute of Mining and Metallurgy, Australian Institute of Geoscientists, and Minerals Council of Australia, and is commonly referred to as the 'JORC Code'. As at the date of this document, the editions of the JORC and SAMREC Codes in force are dated December 2004 and March 2000, respectively. The JORC and SAMREC Codes recognise a fundamental distinction between resources and reserves.

The terms and definitions in the SAMREC Code are consistent with those used in the JORC Code with minor differences in terminology – the JORC Code uses the term Ore Reserve whilst the SAMREC Code uses the term Mineral Reserve. For the purposes of ore and mineral resources reported herein, the term ore resources has been used throughout.

Mineral resources are based on mineral occurrences quantified on the basis of geological data and an assumed cut-off grade, and are divided into Measured, Indicated and Inferred categories reflecting decreasing confidence in geological and/or grade continuity. The reporting of resource estimates carries the implication that there are reasonable prospects for eventual economic exploitation. An Ore or Mineral Reserve is the economically mineable part of a Measured or Indicated Mineral Resource. It includes the effect of dilution and losses which may occur when the material is mined. Appropriate assessments, which may include feasibility studies, need to have been carried out and include consideration of and modification by realistically assumed mining, metallurgical, economic, marketing, legal, environmental, social and governmental factors.

These assessments demonstrate at the time of reporting that extraction could be reasonably justified. Ore Reserves are sub-divided in order of decreasing confidence into Proved Ore Reserves and Probable Ore Reserves.

The Measured and Indicated mineral resources have been reported as being inclusive of those mineral resources modified to produce the ore reserves, in addition to the ore reserves. The resource and reserve estimates provided herein comply with the resource and reserve definitions of the JORC Code, other than those relating to KCM which comply with the SAMREC Code.