



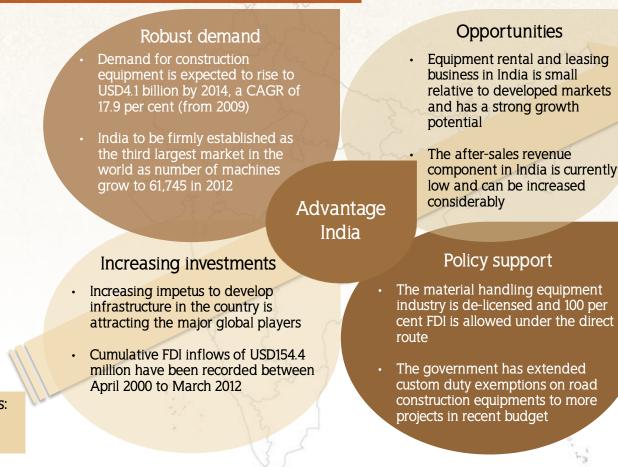
#### Contents

- ✤ Advantage India
- Market overview and trends
- Growth drivers
- ✤ Success stories: BEML, JCB India
- Opportunities
- Useful information





#### Advantage India



Total sales: USD4.1 billion\*

2014E

2009 Total sales: USD1.8 billion\*

> Notes: FY – Indian Financial Year (April – March), USD-US Dollar, E – estimates. CAGR- Compound annual growth rate; FDI- Foreign Direct Investment, \*Includes road construction and earth moving equipment market sales Source: Off-Highway Research, Department of Heavy Industries(DHI) Annual Report, Aranca Research

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Evolution of the construction equipment sector in India



1964

Before 1960

Domestic necessity for construction and mining equipment were entirely met by imports Bharat Earthmovers Ltd, a public sector company, began domestic production of construction equipment in India

manufacturing dozers.

dumpers, scrapers, etc,

They began

for defense

requirements

1969 onwards

Private sector started emerging, led by Hindustan Motors Earth Moving Equipment Division in technical collaboration with Terex, UK

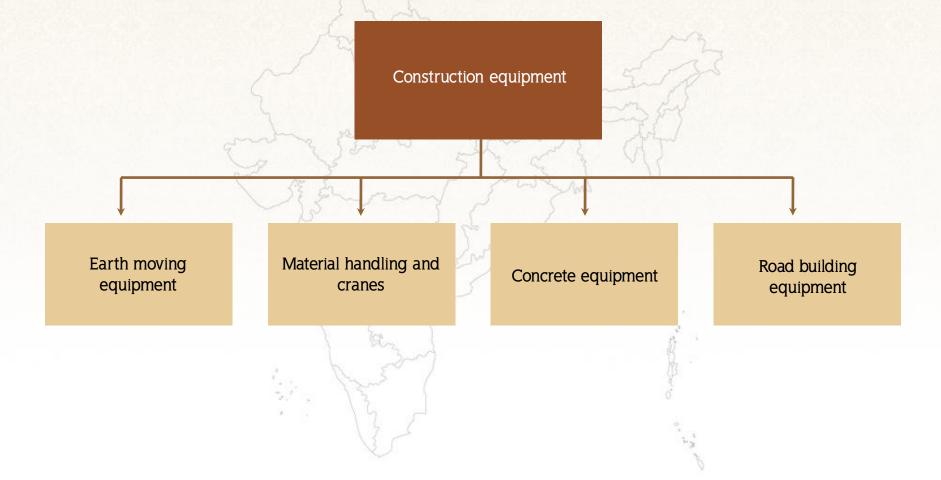
Followed by L&T, Telcon and Escorts JCB

 Most of the technology leaders like Case, Caterpillar, Hitachi, Ingersoll-Rand, JCB, John Deere, Joy Mining equipment, Komatsu, Lieberr, Poclain, Terex, Volvo are present in India as joint venture companies, or have set up their own manufacturing facilities (or marketing companies)

Source: Department of Heavy Industry (DHI), Aranca Research

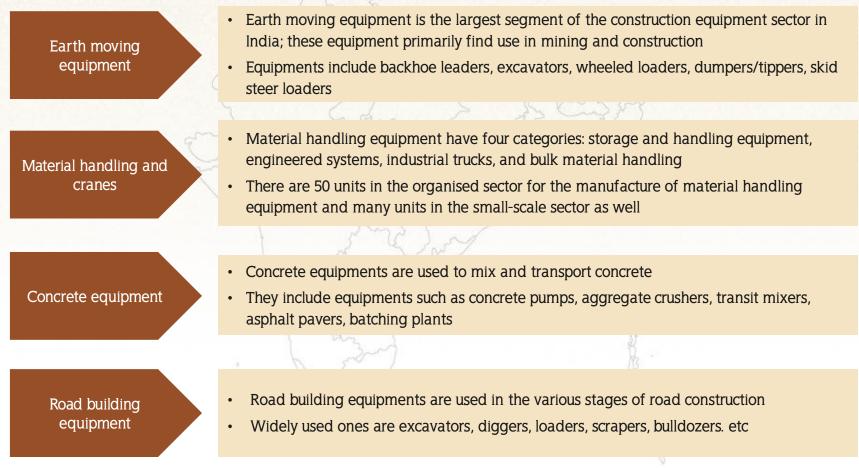


Major segments of the construction equipment industry





#### Construction equipment – an overview



Source: DHI Annual Report 2010-11, Aranca Research

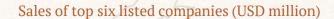
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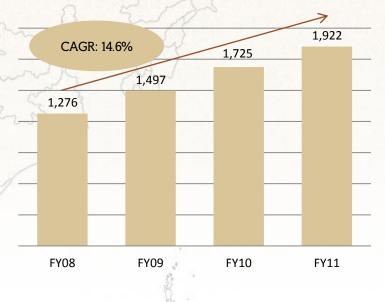


Indian construction equipment companies' revenue on the rise ... (1/2)

- → Sales for top six listed construction equipment companies in India rose at a CAGR of 14.6 per cent over the last four years (FY08-11)
- $\rightarrow$  In FY11, revenues grew by 11.4 per cent

Note: CAGR – Compounded Annual Growth Rate, FY – Indian Financial Year (April – March)





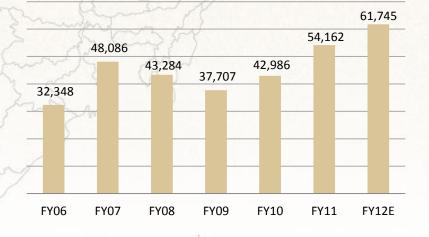
Source: Company annual reports, Aranca Research



Indian construction equipment companies' revenue on the rise ... (2/2)

- → Total sales of the construction equipment industry stood at 54,162 units in FY11
- → With infrastructure investment set to go up, demand for construction equipment will rise further
- → Machine sales are expected to grow 14% in FY12, on the back of a 26% growth previous year

Total no of units of construction equipment sold



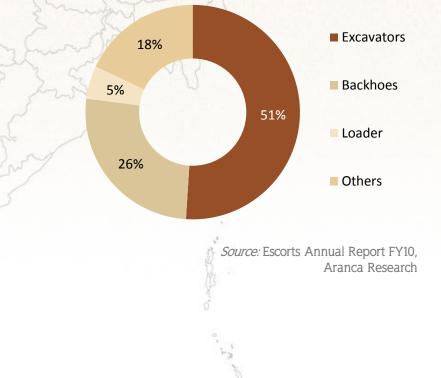
Source: Off-Highway Research, Aranca Research



'Earth Moving' and 'Material Handling' are the major segments ... (1/2)

- → Excavators make up for 51 per cent of the earth moving equipment, followed by backhoes at 26 per cent
- → Excavators come in a range of capacities with different uses

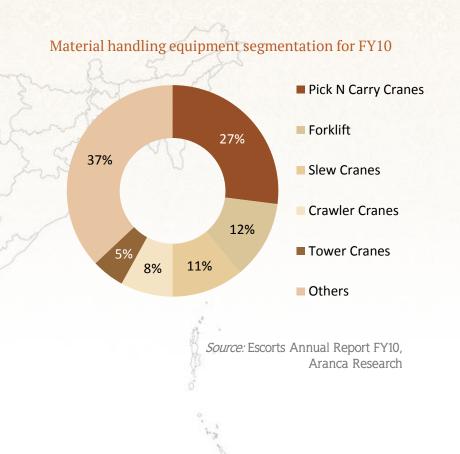
Earth moving equipment segmentation by market size (FY10)





'Earth Moving' and 'Material Handling' are the major segments ... (2/2)

- → Material handling equipment is dominated by Pick N Carry cranes segment with weightage of 27 per cent
- → Pick N Carry cranes provide wide range of applications in material handling and other types of cranes are typically used for heavy duty work





Notable trends in the construction equipment industry

Increasing imports from China

- Chinese equipment manufacturers have a strong presence in some segments like wheel loaders (market share: 12 per cent), dozers (market share: 13 per cent)
- Chinese equipments tend to be price competitive, thereby putting downward pressure on prices of domestic equipment manufacturers

Imports of used items

Increased R&D

- The global downturn of 2008-09 resulted in a sharp increase in imports of equipments from idle global capacities, and used and obsolete machines
- Imports of used crawler and mobile cranes made up 50-80 per cent of total consumption in that segment during FY08-FY11;
- Increased presence of international companies/products has forced Indian manufacturers to invest in R&D in order to match international quality standards
- Deeper understanding of the market and the requirement to produce India-specific products has further raised the need of increased R&D

Sources: DHI Annual report 2010-11, Aranca Research Notes: R&D: Research and Development



Key players

	Company	Revenue in USD million	Products
बी ई एम एल <b>beensh</b>	BEML Ltd	657 (FY12)	Crawler dozers, wheel dozers, excavators, dump trucks, loaders, backhoe loaders, pipe layers, walking draglines, rope shovels and sprinklers
TEB	JCB India Ltd	1,031 (FY11)	Excavators, compactors and tele-handling equipment, skid steers, wheeled and backhoe loaders, telescopic handlers, engines
McNally Bharat	McNally Bharat Engineering Co Ltd	432 (FY12)	Crushing, screening and milling equipment, pressure vessels, material-handling equipment, steel plant equipment
KOMATSU	L&T Komatsu	311 (FY11)	Hydraulic excavators, components and hydraulic systems
GREAVES SINCE 1859	Greaves Cotton Ltd	365 (FY12)	Transit mixers, concrete pumps, heavy tandem rollers, soil compactors
elecon #	Elecon Engineering Co Ltd	277 (FY12)	Elevators, conveyors and moving machines, gears and crushers

*Sources*: Company Annual reports, Company websites, Aranca Research Note: Revenues of the parent companies

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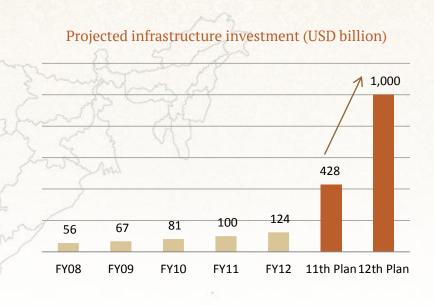
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Investments in infrastructure driving growth in the sector ... (1/2)

- → Infrastructure investments are the main growth drivers of the construction equipment industry
- → The Planning Commission estimates total infrastructure spending of about USD428 billion during the 11th Five Year Plan (2007-12)
- → The Commission plans to double India's infrastructure investments to about USD1 trillion for the 12th Plan (2012-17) raising its share to GDP from 7.8 per cent in FY12E to 10.8 per cent by FY17.
- → According to the World Bank, India is second only to China with respect to the number of PPP projects. Encouragingly, the government is set to continue promoting public private partnership (PPP) models to help achieve its investment targets



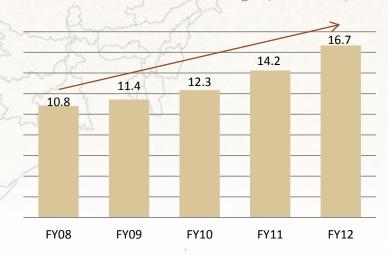
Source: Planning Commission, Aranca Research



Investments in infrastructure driving growth in the sector  $\dots$  (2/2)

- → India has the world's second largest road network spanning 4.2 million kilometers. The Government intends to increase the paved road to total road ratio and build more national highways
- → Hence, roadways in particular is a key focus area of Government policy and investments in the sector will drive demand for road building and construction equipment
- → The corresponding investment figure during the 11th Five year plan (2007-2012) for roads is USD65.4 billion
- → The NHAI plans to increase road project being awarded from 5,059 kms and 6,491 kms in FY11 and FY12, respectively to 8,800 kms in FY13

Investment on roads and bridges (USD billion)



#### Investments

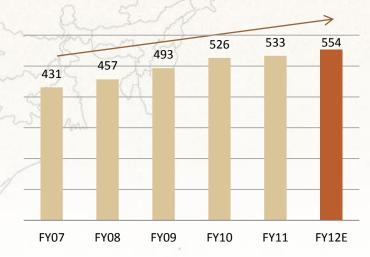
Source: Planning Commission, Aranca Research Note: NHAI: National Highway Authority of India; kms: Kilometers;



Increased mining activity also contributing to higher demand  $\dots (1/2)$ 

- → India is world's third largest coal producer with about 570 million tonnes produced in 2010, according to Statistical Review of World Energy published by BP
- → Coal production in India rose at a CAGR of 5.7 per cent to 537 million tonnes during FY07-FY11
- → Mechanisation of mining operations, a key ingredient behind rising production, has led to increased demand for mining equipment
- → Government expects coal production to increase to 795 million tonnes by FY17

Production of coal and targets (million tonnes)

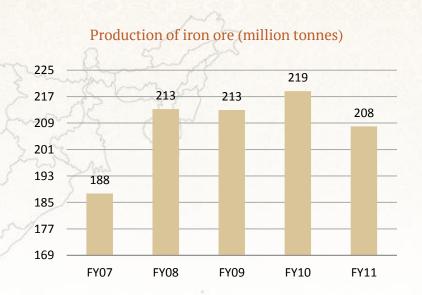


Source: Ministry of Mines, Aranca Research Note : E stands for target for FY12;



Increased mining activity also contributing to higher demand  $\dots$  (2/2)

- → Rising iron ore production is yet another reason behind rising demand for mining equipment
- → A surge in steel production in the country is expected to boost iron ore demand. India's steel consumption is expected to rise from about 70 million tonnes to 122 million tonnes by 2015
- → Production of iron ore in India expected to rise to 212.6 million tonnes in FY11 from 187.7 million tonnes in FY07



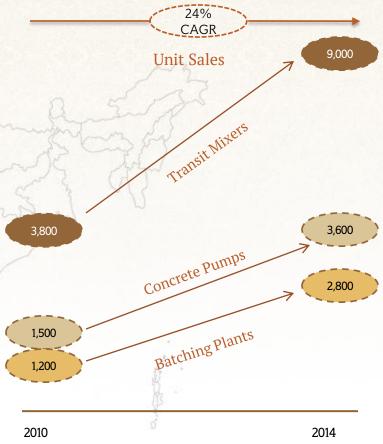
Source: Ministry of Mines, Aranca Research

#### AUGUST Construction Equipment 2012



Growing housing and construction market to further add demand

- The burgeoning real estate industry in India gives a  $\rightarrow$ fillip to the demand for concrete and building construction equipments
  - $\rightarrow$  The residential real estate demand is driven by rising population and growing urbanisation
  - → Rising income levels leading to higher demand for luxury projects
  - Growing demand for affordable housing to  $\rightarrow$ meet the demand from lower income groups
- Commercial real estate demand will be driven by  $\rightarrow$ growth in IT/ITeS sector and organised retail
- Increasingly construction is becoming more oriented  $\rightarrow$ toward mechanisation to reduce project time and control costs - leading to higher demand for advanced construction equipments



**Concrete Equipments Sales Growth** 

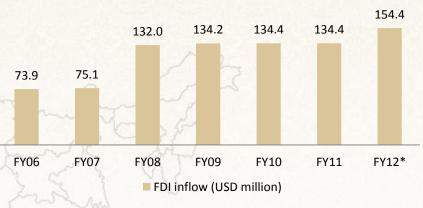
Source: Article from a key construction equipment website (http://www.nbmcw.com/articles/equipment-a-machinery/23335construction-equipment-demand-forecast-2014.html) Aranca Research



Strong demand prospects are attracting global players

- → Fundamentals for the sector are set to remain strong on the back of increasing infrastructure investments
- → Almost all global technology leaders in the construction equipment sector have a presence in India either as joint ventures or with their own manufacturing or marketing companies
- → Cumulative FDI inflows (since April 2000) into earth moving equipment reached USD154.4 million as of Feb-2012
- → Joint ventures with global majors have provided domestic companies access to advanced technology and a whole gamut of project management experience

FDI inflows in earth moving equipment (since FY00)



Source: Department of Industrial Policy & Promotion (DIPP), Aranca Research Notes: FDI – Foreign Direct Investment; FY11: Cumulative from April 2000 to March 2011 and so on. \* Till Feb-2012

#### Global majors entering through JV

Joint venture	Indian partner	Foreign partner
L&T-Komatsu	L&T 50%	Komatsu 50%
Ashok Leyland -John	Ashok Leyland	John Deere
Deere	50%	50%
Telco Construction	Tata Motors	Hitachi
Equipment	40%	60%

Notes: JV - Joint Venture





Source: Company websites

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#### Favourable policies have aided the sector



Delicensing

Special Economic Zones (SEZs)

Tariffs and custom duties

- The material handling equipment industry is de-licensed and Foreign Direct Investment (FDI) of up to 100 per cent under the automatic route as well as technology collaboration is allowed freely
- Government of India's focus on infrastructure development is the biggest driver for the construction equipment industry
- The Union Budget (2011-12) has allocated USD44.6 billion to the infrastructure sector
- The government has granted sops, including a large number of SEZs, to the capital goods industry of which construction equipment is a part; especially with an impetus to increase exports
- The government has removed tariff protection on capital goods
- Custom duties on a range of goods that are used in the manufacturing process
   have also been lowered
- Custom duty exemption on road construction equipments extended to projects
   awarded by MDA in the Union Budget of FY13

*Source*: DHI Annual report, Union Budget 2011-12 and 2012-13, Aranca Research Notes: SEZ: Special Economic Zone; MDA: Metropolitan Development Authority

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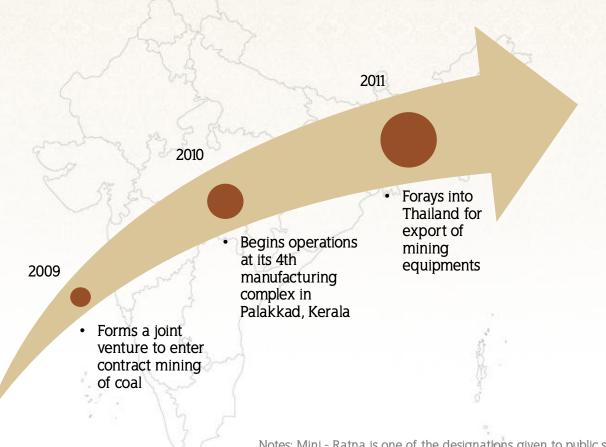
BEML Limited: Largest manufacturer of earth moving equipment  $\dots$  (1/2)

- → BEML Limited is the first Indian company to start manufacturing construction equipment in 1964
- → It is the largest manufacturer of earth moving equipment in India and the second largest in Asia; it has a (global) presence in about 56 countries
- → The company has facilities in Kolar gold fields, Bengaluru, Mysore and Palakkad
- → The company is a Mini-Ratna (Category 1) company under the Ministry of Defence; it was listed on Indian bourses in 2003 and raised further funds by a follow on offer in 2007





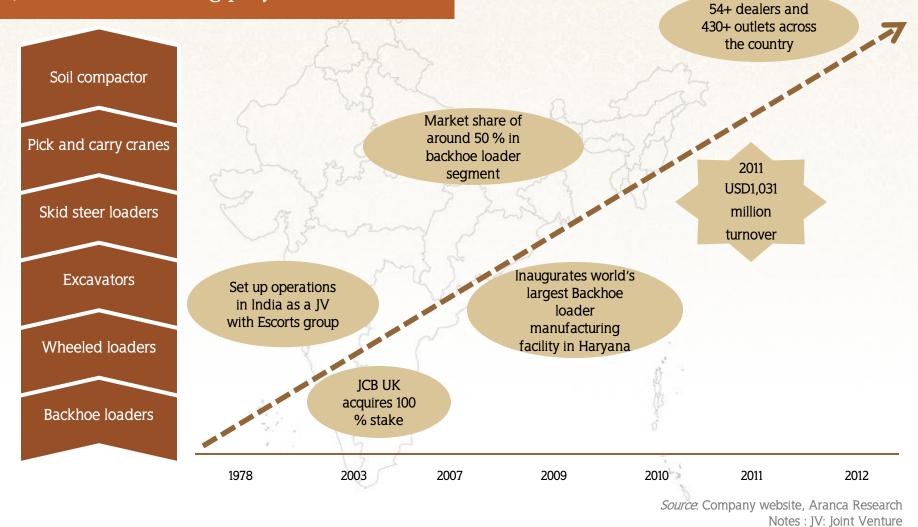
BEML Limited: Largest manufacturer of earth moving equipment ... (2/2)



Notes: Mini - Ratna is one of the designations given to public sector enterprises based on their profitability and there by granted certain autonomy,



#### JCB India – Leading player in the sector



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## Opportunities in the construction equipment sector

Renting and leasing of equipment

- The equipment rental and leasing business in India is smaller compared to Japan, USA and China
- Demand for rental equipment is set to witness strong growth in the medium term due to large investments in infrastructure
- New players can also explore opportunities in the equipment finance business

#### After-sales services

• The global average of revenues from after-sales service is 12-20 per cent; in India it is 2-8 per cent

- After-sales market is set to expand to USD0.5 billion by 2015; players can offer maintenance contracts with improved pricing and execution
- While these services contribute only modestly to revenues, they are counter-cyclical and can also boost spare part sales

#### Exports

- Export opportunities are abound

   both in developed and
   emerging economies
- Components and aggregates export is a USD 1 billion opportunity; local suppliers can gain a decent share of this by exporting engineering-intensive and basic material based components
- Opportunities in engineering and design off shoring and equipment exports may arise in the future

Source : Indian Earthmoving & Construction Industry Association Ltd (IECIAL), Indian Brand Equity Foundation (IBEF), Aranca Research

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#### **Industry Associations**

Indian Earthmoving & Construction Industry Association Ltd (IECIAL) C/O Confederation of Indian Industry The Mantosh Sondhi Centre 23 Institutional Area,Lodhi Road New Delhi – 110 003 Tel: 011- 24629994-7, 011-45772032 Email: s.g.roy@cii.in

Engineering Export Promotion Council (EEPC) 'Vanijya Bhawan', 1st Floor International Trade Facilitation Centre, 1/1, Wood Street, Kolkata, West Bengal–700016. Phone: 91-33-22890651, 22890652 E-mail: eepc@eepcindia.org



#### Glossary

- → FY: Indian Financial Year (April to March)– So FY11 implies April 2010 to March 2011
- → USD: US Dollar Conversion rate used: USD1 = INR48
- → FDI: Foreign Direct Investment
- → CAGR: Compounded Annual Growth Rate
- → GOI: Government of India
- → IECIAL: Indian Earthmoving & Construction Industry Association Ltd
- → DHI: Department of Heavy Industries
- $\rightarrow$  R&D: Research and Development
- → JV: Joint Venture
- $\rightarrow$  SEZ: Special Economic Zone
- → IBEF: Indian brand Equity Foundation
- → Wherever applicable, numbers have been rounded off to the nearest whole number
- → List of top six listed companies used in slide No 8 : BEML, McNally Bharat , Greaves Cotton(for FY11, considered only first nine months), Elecon Engineering , ACE, TRF



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