

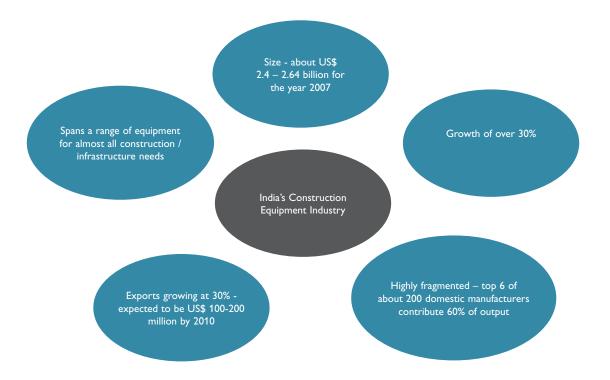
## CONSTRUCTION EQUIPMENT

October 2007





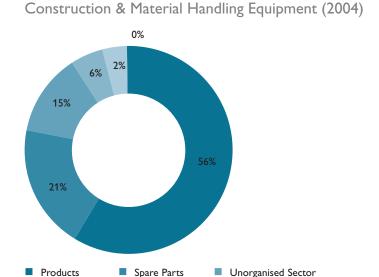
## India's Construction Equipment Industry - Highlights





## The Industry spans a range of products and services

- Products and spare parts constitute the bulk of the industry
- Services segment is still nascent and presents good opportunities for growth
- The unorganised sector contributes about 15% by value, though the majority of players belong here



Imported Used Equipment

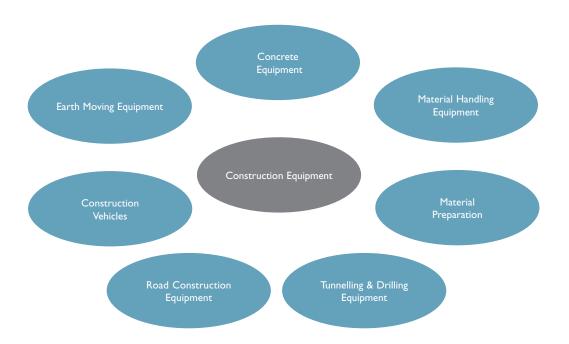
Source: CII-KPMG Report on Indian Infrastructure, KPMG

Exports

Services



## The key segments that constitute the Construction Equipment industry in India are



And there are a range of products in each segment



## The industry has a wide product range

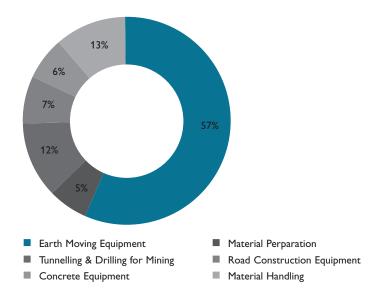
Earth Moving Equipment	Concrete Equipment	Material Handling Equipment	Material Preparation	Road Construction Equipment	Construction Vehicles	Tunnelling & Drilling
<ul> <li>Backhoe Loaders</li> <li>Excavators</li> <li>Loaders</li> <li>Bulldozers</li> <li>Skid-Steer Loaders</li> <li>Wheeled Loading</li> <li>Shovels</li> <li>Wheel Loaders</li> <li>Motor Graders</li> <li>Motor Scrappers</li> <li>Dump Trucks</li> <li>Wheel Dozers</li> <li>Draglines</li> </ul>	<ul> <li>Concrete Breaker</li> <li>Paver Finisher</li> <li>Concrete Batching Plants</li> <li>Concrete Pumps</li> <li>Concrete Mixers</li> <li>Hot mix plants</li> </ul>	Telescopic Handlers     Crawler Cranes     Mobile Cranes     Truck Cranes     Forklifts     Pick & Carry Cranes     Slew Cranes     Tower Cranes     Conveyors	<ul> <li>Crushing Plants</li> <li>Jaw Crushers</li> </ul>	Compaction Equip     Vibratory Rollers     Pavers	Dumpers     Articulated     Haulers	<ul> <li>Rotary/ DTH Drilling</li> <li>Hammer Track Drill</li> <li>Boring Equipment</li> <li>Demolition Equipment</li> </ul>

However, a few segments dominate the industry in size and volumes

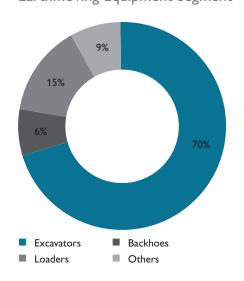


## Earthmoving Equipments constitute the biggest segment and Excavators, the largest product line within the segment





#### Earthmoving Equipment Segment

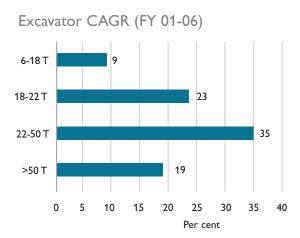


Source: KPMG Analysis, Primary Research; CII-KPMG Report on Indian Infrastructure



## Earthmoving Equipments constitute the biggest segment and Excavators, the largest product line within the segment

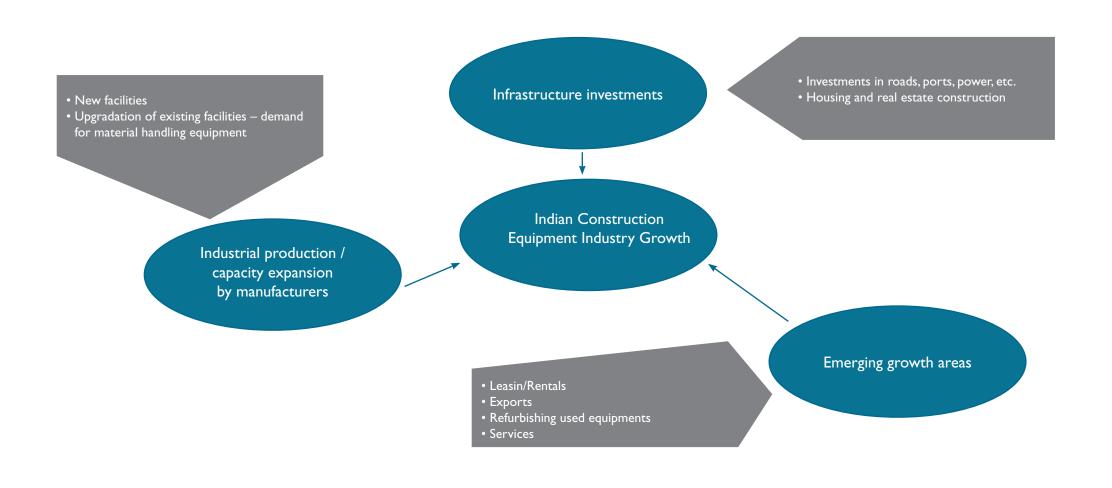
- The Excavator market is estimated at US\$ 1.4 billion
- Growing at 30% CAGR, driven by 22-60 tonne excavators



Source: KPMG Analysis, Primary Research; CII-KPMG Report on Indian Infrastructure



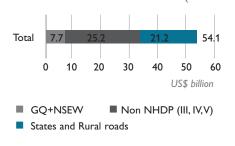
## Growth in the industry is expected to be driven by 3 key drivers





# Significant investments are planned in developing India's infrastructure, which will benefit the Construction Equipment industry

Total Planned Road Investments (FY 06-10)



Source: NHAI, Budget & Plan Documents CRIS INFAC, Construction Report Total Planned Urban Infrastructure

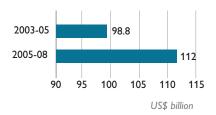


Source: NHAI, Budget & Plan Documents CRIS INFAC, Construction Report



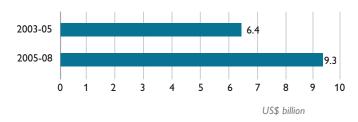
# Significant investments are planned in developing India's infrastructure, which will benefit the Construction Equipment industry

#### Real Estate Development



Source: NHAI, Budget & Plan Documents CRIS INFAC, Construction Report

#### Total Planned Irrigation Investments

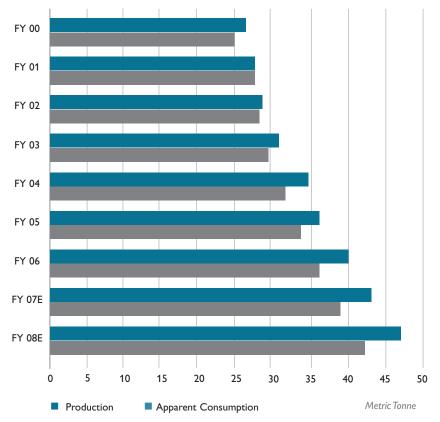


Source: NHAI, Budget & Plan Documents CRIS INFAC, Construction Report



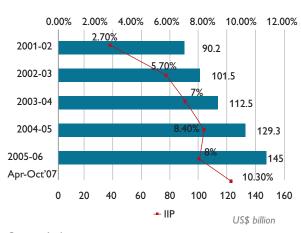
## Industrial production has been growing and significant capacity additions are planned in core sectors





Source: JM Morgan Stanley Research, Report on Indian Steel

#### Index of Industrial Production & Industrial GDP

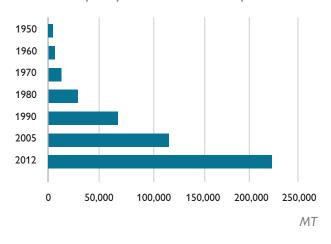


Source: Indiastat



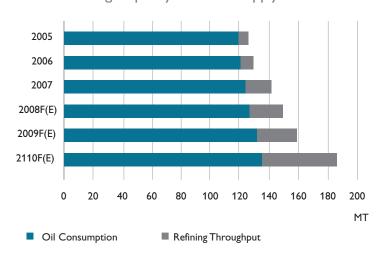
# Industrial production has been growing and significant capacity additions are planned in core sectors

Installed Capacity at the end of the period



Source: JM Morgan Stanley Research, Report on Indian Steel

India Refining Capacity Demand-Supply



Source: Companies, ABN AMRO Research



### New areas are emerging, that present good growth potential for the future

#### **Rentals**

- Currently, equipment rentals contribute to just about
   2% of the market
- This is expected to grow to about 25% by 2010

### Leasing

 Equipment leasing expected to grow from about 2% to around 8% by 2010

### Financing and end-to-end services

 Some of the large players are looking at providing end-to-end services to the users throughout the equipment lifecycle – financing, user training, maintenance and buy-back of used equipment

#### **Exports**

 Exports of Construction Equipment (CE) from India grew by 30% CAGR over 2001-05 and are expected to sustain this growth in the future





## The sector is competitive and likely to see increased investment from global players

HIGH



**MEDIUM** 



LOW



#### **Threat of New Entrants**



- Fragmented market, dominated by a few large players
- High potential growth
- New players will need the right technology and product



## The sector is competitive and likely to see increased investment from global players

#### **Supplier Power**

- Import of some critical components
- Volatility of steel prices impacting production costs
- Inadequate supplier base to meet demand

#### **Competitive Rivalry**

- Price & Service are the differentiators
- Lack in sharp differentiation leading to competition in price



## The sector is competitive and likely to see increased investment from global players

#### **Customer Power**

- Strong increase in demand
- Price sensitive market
- Customers need to be trained in technology, equipment usage

#### **Threat of Substitutes**

- Complete substitution may not happen in near future
- Product replacement or enhancement is possible

Source: KPMG Analysis



## Attractive investment options emerge in the following areas

- Earthmoving Equipment, Road Construction
   Equipment and Material Handling Equipment appear
   the most attractive product segments, in terms of size
   and future growth potential
- However, the Indian CE market also presents other areas that are nascent, but which have high growth potential:
  - \* Engineering Design Services
  - \* Equipment Rentals
  - \* Repair & Refurbishing of used equipment



## Industry players would need to address the following key success factors

#### **Post-Sales Support**

- Service and Training Infrastructure
- Maintenance
- Spare Parts & Distribution Network

#### **R&D** and Innovation

- Appropriate technology and pricing
- Product customisation
- Product reliability and ease of use

#### **End-To-End Services**

- Equipment selection
- Financing/leasing/rental
- Maintenance and training
- · Repair and refurbishing



### **JCB** India

- JCB came to India in 1979
- The company has a turnover of US\$ 335 million
- The company is growing by 25-30% annually
- JCB India is a subsidiary of JC Bamford Excavators Ltd. (JCB)
- The products range from backhoe loaders, wheeled loaders to excavators and skid steer loaders



- The Company has a 70% market share in the backhoe loader segment and around 13% market share in the overall Indian CE industry
- It has facilities at Ballabgarh in Haryana and Pune in Maharastra
- It has 38 dealers and 206 outlets
- It has a dedicated parts centre in Ballabgarh and parts distribution depots in Chennai, Pune and Kolkatta



#### **Bharat Earth Movers Ltd. (BEML)**

- BEML is its largest player in earthmoving equipment sector
- The Company turnover is around US\$ 484 million
- The mining and construction equipment segment is around US\$ 306.6 million; defence segment is about US\$ 154.2 million; and railways around US\$ 23 million
- The company is the largest public sector undertaking in this industry



- Some of its customers are Delhi Metro Rail
   Corporation, Coal India and Jessop Co. Ltd. (Railways)
- The Company has facilities established in Bangalore, Kolar Gold Fields and Mysore in Karnataka
- It has a 70% market share in the domestic earthmover industry and 12% in the overall construction equipment industry
- It has 33 marketing offices and has a strong foothold in the government sector



#### L&T Case, L&T Komatsu

- The companies together have a turnover of US\$ 156 million, with majority coming from L&T Komatsu.
   Both these companies are subsidiaries of L&T Ltd.
- They are joint ventures with CNH American LLC and Komatsu Asia Pacific Pvt. Ltd., Singapore, respectively
- L&T Case manufactures loaders backhoes and vibratory compactors; while L&T Komatsu manufactures hydraulic excavators



- L&T Case hold 21% market share in vibratory compactors
- L&T Komatsu holds 20% market share in excavators
- L&T Case has its facilities in Pithampur, Madhya Pradesh
- L&T Komatsu has it operations in Bellary Road in Karnataka



#### Ingersoll-Rand India Ltd.

- A public limited company (majority owned by Ingersoll Rand), is a market leader in compactors with a turnover of US\$ 104.5 million
- The company operates in construction and compact vehicle technologies, air solutions and climate control technologies, with each of these contributing US\$ 50.8 million, US\$ 62 million and US\$ 0.9 million, respectively
- It has a 39% market share in the compactor segment



- Its major products are compaction equipment, pavers, loaders, light towers, air compressors, etc.
- It has operations in Bangalore and Ahmedabad and has a good distribution network with 22 company offices and 80 distributors across India



### **Tractors India Ltd. (TIL)**

- The public limited company is a market leader in slew cranes segment in India
- It has a turnover of US\$ 104.5 million of which US\$ 28.2 million is contributed from machine handling; US\$ 51.2 million from construction equipments and rest from power systems
- Its product range includes slew cranes, earthmoving equipments, diesel generating sets, forklifts, etc.
- Its has a 32% market share in the slew crane segment
- It has facilities installed in Kamarhatty in West Bengal and Sahibabad, U.P.
- It has 33 Indian locations and 4 overseas offices in its distribution network



## Telco Construction Equipment Company Ltd. (Telcon)

- The company is a market leader in excavators
- It has collaborations with Hitachi Construction
   Machinery Company, Japan, for hydraulic excavators
   and cranes; John Deere, USA, for backhoe loader
   technology; CESAN, Turkey, for asphalt plants
- It is a subsidiary of Tata Motors and has a turnover of US\$ 283 million
- Its major products are excavators, loaders, mechanical shovels, high tonnage crawler cranes, etc.



## Telco Construction Equipment Company Ltd. (Telcon)

- It has a 50% market share in the excavator segment and an overall market share in the construction equipment segment of 11%
- Tata group of companies, government enterprises, and contractors are its major customers. It has facilities installed at Jamshedpur in Jharkhand and Dharwad in Karnataka
- Its marketing network spans across 30 Indian states and 3 international locations



#### **Voltas**

- The public limited company a part of the Tata group is the second largest player in the forklifts segment.
   The customers are engineering industries
- Its products are: industrial air conditioning and refrigeration equipment, air conditioners, water coolers, freezers, commercial refrigerators, forklift trucks and large water supply pumps
- The company has a turnover of US\$ 260 million, of which less than 7% is accounted for by the material handling division



- It has a 31% share in the forklifts segment. It has facilities in Thane, Maharastra; Union territory of Dadar; and Sanathnagar in Andhra Pradesh
- Voltas has its head office in Mumbai and zonal headquarters in Mumbai, Kolkatta, New Delhi and Chennai
- It has territorial offices in 8 more Indian cities and
   3 international locations



#### Godrej & Boyce Mfg. Co. Ltd.

- The private limited company has its products as forklifts (diesel, electric, battery)
- It holds a 48% market share in forklifts segment
- The company has a turnover of US\$ 402.6 million
- Its major customers are airline operators, automobile industry, FMCG, pharmaceutical industry, oil and petroleum industry
- It has facilities in Mumbai, Maharastra. It has 14 branches and 20 dealers across India. The company is a market leader in forklift trucks (both in diesel and battery variants)



### **Escorts Construction Equipment Ltd. (ECEL)**

- It is a pioneer manufacturer of Pick & Carry cranes
- The company is a subsidiary of Escorts Limited. It has a turnover of US\$ 61 million
- It holds a 56% market share in the domestic pick and carry market
- It has facilities installed in Faridabad, Haryana
- Its products include pick and carry cranes, slew cranes, articulated boom cranes, tower cranes, forklift trucks, front end loaders, vibratory soil compactors, tandem vibratory rollers, etc.
- It has 16 ECEL business centres and
   54 dealer locations



### **Action Construction Equipment Ltd. (ACE)**

- The public limited company has a turnover of US\$ 36.3 million
- Its product range includes hydraulic mobile pick-n-move cranes, forklift trucks, loaders, tower cranes, aerial work platforms, lifts, lorry loaders/truck mounted cranes, etc.
- It has a 41% share in Pick & Carry cranes segment
- It has facilities installed in Faridabad in Haryana
- There are 8 ACE offices and 33 dealer locations
- The turnover of the company has grown at a CAGR of approximately 96% in the last 4 years. The company has plans of diversifying its product portfolio to include truck mounted cranes, forklifts and backhoes

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