

BALKRISHNA INDUSTRIES LTD

Bhuj (Gujarat)

Unit Profile

Balkrishna Industries Limited, is a leading manufacturer in the Off-Highway tire market. As a global specialty tire supplier, company strength is the extensive Off-Highway tire lineup of over 2,300 products. It is the key to their success, enabling BKT to meet the application needs of both end users and vehicle manufacturers. Some of the Key focus areas are Agriculture and Forestry tires, Earthmoving and Industrial tires, dumper tires, Forklift Tires, Reach stacker tires, Crane tires, Scraper tires and tires for port applications and container handling. BKT also cater to the SPECIAL TIRES segment, which deals with ATV , Lawn and Garden Equipments and golf club applications.

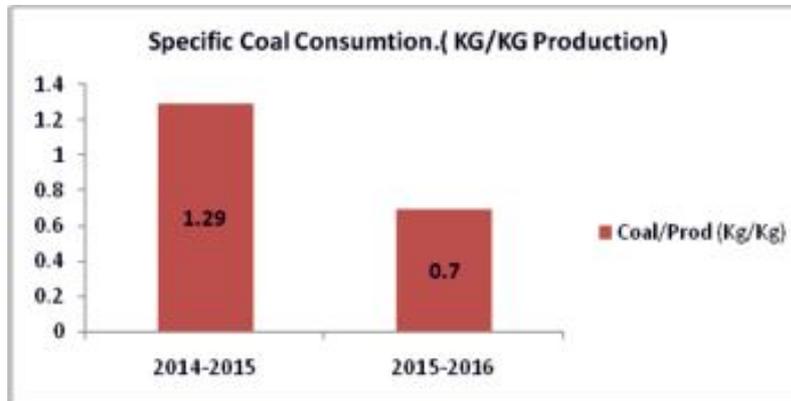
BKT, Head-quartered at Mumbai, India, has developed into a global player in the Off-Highway tire industry with a 6% market share and a sales volume of 850 million US dollars corresponding to a 30% increase over the last five years. Spread over our three group companies in India, Europe and North America, BKT is presently employing over 6,000 people. Day by day, BKT people embody the corporate values and share the passion for their work. At BKT, everyone is on the ball, committed to satisfying our customer needs with tailored Off-Highway tire solutions for the most differing applications in every specialist segments.

Apart from the Bhuj Plant, BKT tires are manufactured in India at three main production sites in Aurangabad, Western India, and Bhiwadi and Chopanki situated in North India. In addition to these, there is a mold production plant in Dombivali, north of Mumbai.

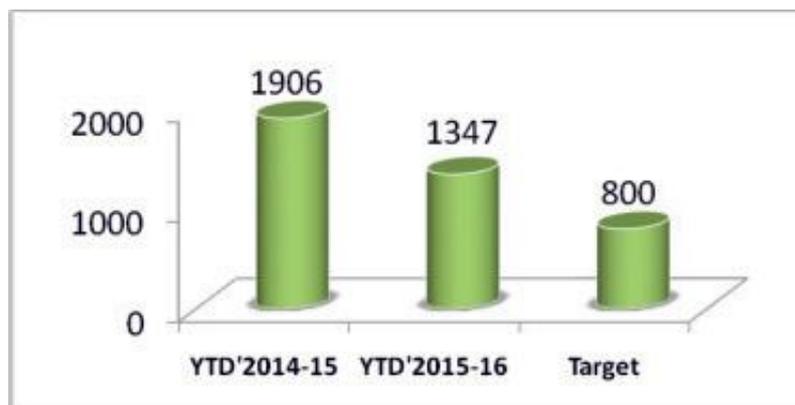


Specific Energy Consumption

Coal (KG/KG Production)



POWER (kWh/MT Production)



Energy conservation Measures implemented in 2015-16

The Various projects were undertaken to reduce specific Power Consumption. The major projects are listed below-

- A) **DOMES INSULATION FOR TYRE CURING PRESSES:-** There are 90 Curing presses using for Tire vulcanization. L.P steam (4.0 kg/cm²) using for Dome heating. There is huge heat loss as no Insulation on outer surface (temp. < 100°C). Providing the Insulation on this type of Dome surface needs specialized skill. Insulation project carried out with skilled contractor. Saved 129226 kWh for the year as total coal consumption & boiler auxiliary power reduced. **Result- Saved 2432.5MT Coal**
- B) **HOT WATER RECOVERY FROM TYRE CURING PRESSES:-** Hot water with temp. of 172° C is required for Tire Vulcanizing purpose. As per process, after Hot water cycle the Bladder will be filled with Cold water. To recovery the hot water from the Bladder before Cold water in, the Hot water recovery system provided and recovered hot water will directly feed to Hot water Tank. We have saved 129040 kWh for the year as total coal consumption reduced & boiler auxiliary power we have saved. **Result- Saved 2429MT Coal**

Year of Commissioning of the projects	Project description	Achievement of Annual energy savings in 2015-16					Total Savings (Rs. (Lacs))	Investment incurred on the project
		Electricity	Fuels*			Total Fuel (MOTE)		
		(Lakh kWh)	Coal (tonnes)	F.Oil (kL)	Gas (lakh Nm ³ Lacs)			
	(i) Please list the projects title names which were implemented during the year (ii) Please mention the achievement of energy saving against each projects in the suitable columns.							
	Hot Water Recovery in Tyre Curing	1.29	2429			1104.14	1E+07	33.11
	Tyre Curing Presses Dome Insulation	1.29	2432.5			1105.72	1E+07	17.5
	Temperature interlock for all Cooling tower fans.	2				17.2	1544235	0.24
	VFD in Hot & Cold water Pumps	2.43				20.898	1875720	6.1
2015-2016	Mixer Cooling fans, Dust collector stoppage interlocking with Mixer Stoppage	1.1				9.46	858396	0
	Shifting of Air compressor and optimisation of Air pressure	2.2				18.92	1702800	0.4
	Interlocking of M/c auxiliaries and lights off when M/c not in Operation	0.73696				6.34	567456	0.05
	Packer stacker Hyd Pump Interlocking	1.078				9.27	830060	0
	To reduce electric power consumption by installation of SKY-PIPE DAY LIGHT HARVESTING in Final Tire Inspection Area	0.05775				0.4966	44467.5	2.4

**JK TYRE & INDUSTRIES LTD.
VIKRANT TYRE PLANT
Mysuru (Karnataka)**

Unit Profile

JK Tyre, (JK Tyre & Industries Limited - A public limited company), is the flagship company of JK Organization. J.K. Organization owes its name from Late Lala Juggilal Singhania and his illustrious son late Lala Kamlapat Singhania, a dynamic personality with a broad vision. Inspired by the cause of the Swadeshi movement of Mahatma Gandhi and driven by the zeal to set up an Indian enterprise, Lala Kamlapat Singhania founded J.K. Organization in the 19th century - ushering in a new industrial era in India. The spirit of entrepreneurship has been carried forward by the present generation of the Singhania's under the leadership of Dr. Raghupati Singhania, as Chairman, J.K. Organization has marked steady growth and diversification, both in domestic and international market since 127 years.



Operations:

JK Tyre & Industries limited was set up as a division of JK Organization with manufacturing facility at Jaykaygram (Kankroli) near Udaipur, Rajasthan. This plant was set up in 1975 in Technical Collaboration with General Tire International Corporation of U.S.A.. Production capacity: - 207 MT/Day. A second manufacturing facility was set up at Banmore, near Gwalior (M.P) in 1991. Production capacity: - 190 MT/Day. In 1997, JK Tyre & industries Limited entered into Strategic Alliance with Vikrant Tyre Ltd., Mysuru, (A Govt. of Karnataka undertaking), to improve its performance. Subsequently Vikrant Tyre Ltd., merged with JK Tyre & Industries Ltd. in 2002 - 410 MT/Day. JK Tyre & Industries has further expanded its operation by starting a Green field project with state-of-the-art modern production facilities at Chennai for manufacture of Radial passenger car tyres and all steel Truck Bus tyres. (Production Capacity of 12 Lakh TBR tyres & 45 Lakh PCR tyres). Totally 9 Plants; 6 Plant in India, 3 Plants in Mexico & Current Capacity : more than 20 million tyres p.a.

JK Tyres & Industries limited, Vikrant Tyre Plant (**VTP**) expanded its operation and set up a new plant in Mysuru to manufacture a heavy duty Off the Road Tyres. There are totally 3 manufacturing facilities at Mysuru location with wide range of products. Over all Mysuru plant has Production Capacity of 410 MT/ Day

- Plant-1 for manufacture of Bias Truck / Bus / LCV / Farm application / LCV Radial tyres (Production capacity: 177 MT/day)
- Plant-2 for manufacture of advanced technology Truck/Bus radial tyres (Production capacity: 207 MT/day)
- Plant-3 for manufacture of Off The Road (OTR) Tyres (Production capacity: 26 MT/day) used for special applications such as Dumpers, Excavators, mining, etc.

JK Tyre & Industries Ltd., is a public limited company has a turnover of approx. 7655 crores per annum. Out of which Mysuru location has a turnover of approx. 3500 crores per annum.

JK Tyre has an extensive network of 143 JK Tyre Selling Points more than 4000 dealers spread across the country of which 1000 exclusive for JK. Over 205+ JK Tyre Steel Wheels center across the country. Maintained its No.1 position, in Truck/ Bus radials with a market share of 31% & further strengthened its market share in Passenger Car Radials.

Energy Consumption details

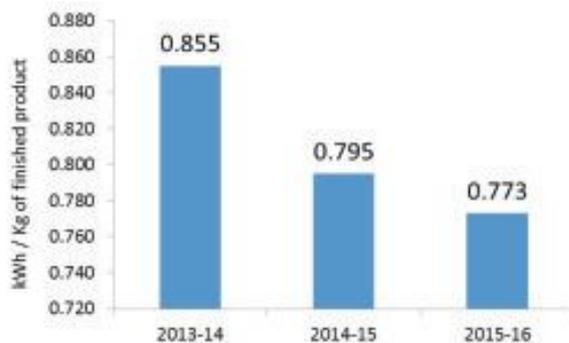
Energy bill data for the last one year (2015-2016)

Type	Units	2014-15 Consumption	2015-16 Consumption
Purchased power (SEB)	Million kWh	942	881
Generated power	Million kWh	6.8	9.9*
Coal	MT	61,789	55,741
LPG	Lakh m3/ year	1.725	1.565
FO	KL	189	0.50

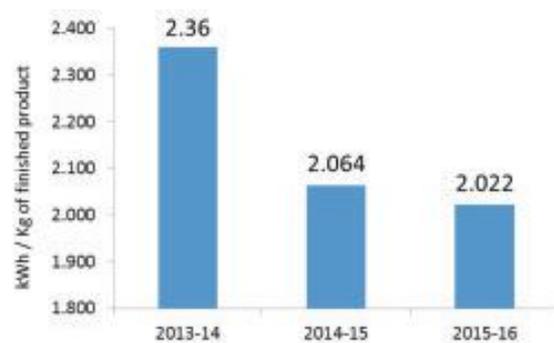
* 0.8 Million Green Energy generated from Roof Top solar panel

Specific Energy Consumption:

Specific Power Consumption (kWh/ Kg)



Specific Steam Consumption (Kg / Kg)



Energy Policy:

ENERGY POLICY

We at JK Tyre are committed to design, manufacture and distribute our products & services in an energy efficient manner to meet our mission statement of becoming a green company. We will continually improve our energy performance for sustainable growth by:

- Complying with all applicable legal and other requirements related to our energy use, consumption and efficiency.
- Taking measure in Energy Management System by being proactive, innovative and cost effective including procurement of energy efficient product & services.
- Enhancing effectiveness of energy management system by ensuring the availability of information and necessary resources to achieve the objectives and targets.
- Integrating energy policy into our business planning, decision making and performance review at appropriate level.

We commit to communicate this policy to all our employees, persons working for and on our behalf and also will make it available to all interested parties on request.

Authorised and Approved by
Vivek Kamra
President (India)

JK TYRE
INDUSTRIES LTD.

bsi.

Certificate of Registration

ENERGY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that:

JK Tyre Industries Ltd.,
JK Tyre Plant,
Plot No. 10,
Sector 10,
Gurgaon, Haryana,
India.

Has been certified to:

ISIRI 9001:2015

and operates an Energy Management System in accordance with the requirements of ISO 9001:2015 for the following scope:

The Manufacture & service of the product of JK Tyre Ltd. of Bharatpur from their Bharatpur plant. Generation of the Power generation of the JK Tyre Ltd. through their Heat Recovery System operation of their Bharatpur Plant. The JK Tyre, Bharatpur of JK Tyre Industries Ltd. Gurgaon, Haryana.

For and on behalf of BSI:
Paul Young, Head of Certification & Registration

Document Reference: BS 9001:2015
Latest Revision: 2015:01

Certificate No: 17002915
Expn Date: 24/03/2018
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..making excellence a habit.