Certificate of Merit — *Tyre*

BALKRISHNA INDUSTRIES LIMITED

Auranagabad (Maharashtra)

Unit Profile

M/s Balkrishna Industries Ltd, is one of the world's leading manufacturers of "OFF-HIGHWAY Tires". Aurangabad plant is in central part of India dedicated in **manufacturing of regular & heavy duty tires for special applications.** BIL's yearly sales turnover is of Rs. 3780 crores with 85% export in more than 130 countries.

Waluj Unit, Aurangabad is the mother plant of Balkrishna Industries Ltd, which started in 1988. The unit is situated on the **plot area of 10.2 acres**. As on date the installed capacity of this unit is 130 MT / Day. The success story of BKT began in 1995, when it entered into production of cross ply off-highway market tires. Product received instant acceptance in European & North American market. With the help of persistent & intensive market research coupled with ever expanding production capabilities, today BKT has made its mark in the specialty segments like Agriculture, construction, Industrial, Earthmover, Port, ATV, and Turf care application in both cross Ply & Radial construction.

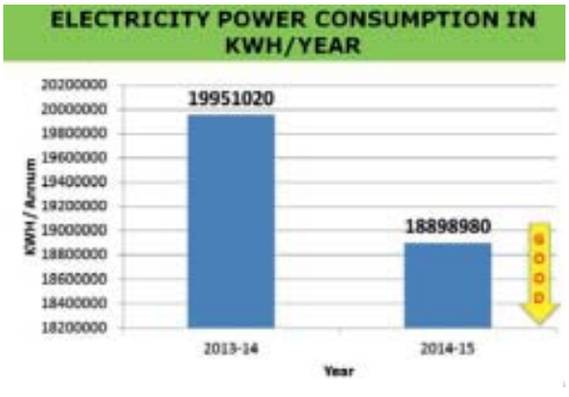
BKT is continuously expanding its production base with four state of the art **"Tire manufacturing facilities"** and one **"In-house HI-Tech Mould-Manufacturing facility"** at different locations in India. BKT is well equipped to feed the ever-growing and emerging demand of its worldwide customers.

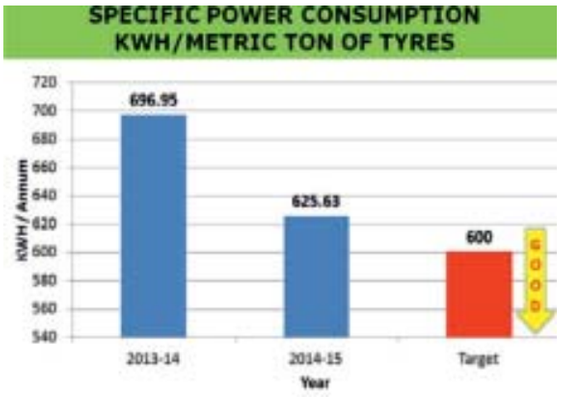
Unit is certified for Quality Management System ISO9001:2008 and Environmental Management System ISO 14001:2004. BKT is the first company from India to meet REACH compliance products, recommended by EUROPEAN Union for environment protection.

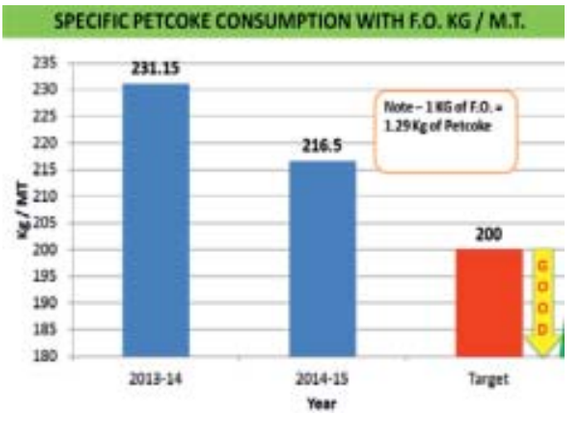
Waluj unit contributes to the Corporate Social Responsibility by arranging **blood donation camp every year**. Unit also extend financial support to **NGO's** engaged in education and welfare of **under privileged children** apart from providing financial support to hospitals / health centers.

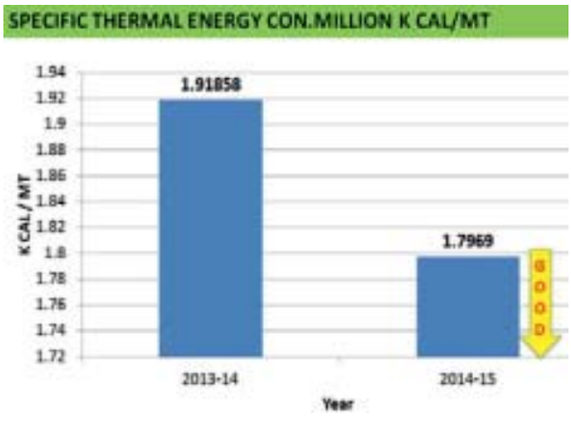
Specific Energy Consumption

Sr. No.	Energy	Unit of Measurement	Year	
			2013-14	2014-15
A	Specific Power Consumption	kWh / TON	696.95	625.63
B	Electrical Power Consumption	kWh / Year	19951020	18898980
C	Specific Petcoke Consumption	KG / TON	231.15	216.5
D	Specific Thermal Energy Consumption	Kcal / MT	1.91858	1.7969









Achievement of Energy Conservation and saving for the year 2014 – 2015

Project description	Achievement of Annual energy savings in 2014-15						
	Electricity (Lac kWh)	Fuels* Coal / Petcoke	F.Oil (kL) Nm^3)	Gas (lac (MOTE)	Total Fuel (Rs. Lacs)	Total Savings	Investment incurred on the project Rs. (Lacs)
1)To reduce electric power consumption by installation of SKY-PIPE DAY LIGHT HARVESTING in Final Tire Inspection Area	**0.106**					**0.75352**	**2.8538**
2) To reduce electric power consumption BY USING Energy efficient LED lighting	**0.193**					**1.36576**	**2.4756**
3) To reduce electric power consumption on 10'' HFE cracker mill no-2 rubber feeding conveyor	**0.108**					**0.76356**	**0.08922**
4)To reduce the electrical power consumption stirrer motor and pump for painting of green tires.	**0.178**					**1.2638**	**0.13**
5) To reduce electric power consumption by running energy efficient group of compressors on priority	**1.623**					**11.47574**	**0**
6) Reduction in Power consumption by switching off 30 KW hydraulic pumps by combining cold & hydraulic circulation pumps with return control feedback system curing presses.	**2.217**					**15.67843**	**1.50000**
7) To reduce electric power consumption of NRM-1& NRM-2 cooling tower pump by installation VFD	**0.412**					**2.914**	**0.6226**
8) Reduction in Power consumption by modifying remote partial off weighing & booking conveyor at the time of size change 6" extruder.	**0.012**					**0.08484**	**0.44553**
9) Reduction in Power consumption by modifying remote partial off weighing & booking conveyor at the time of size change 10" extruder.	**0.0542**					**0.08484**	**0.44553**
10)To reduce electrical Power consumption of HOT WATER circulation pump motor by installation of VFD with close loop feedback system	**0.933**					**6.59975**	**2.89977**
11)Reduction in power consumption regulating the air pressure to valves ,solenoid valves of curing presses & mouldclening air gun by 6.9 Barg to 4.5 barg.	**0.813**					**5.7487**	**1.71704**

12)Reduction in power consumption by installation of VFD in Vaccum pump for A,B,C&D Line Curing Presses.	**0.308**					**3.34690**	**3.78000**
13) Reduction in power consumption by installation of VFD in Vaccumpump for E& F Line Curing Presses.	**0.371**					**3.7188**	**3.78000**
14) To improve the power quality by installation of Harmonic & APFC Panels.	**Improve-ment in power quality**					**0**	**7.23240**
15) Reduction of power consumptionby arresting air leakages on daiybasis .	**0.67**					**4.7369**	**NIL**
16) Reduction in Power consumption by modifying hydrulic pump motor electric circuit to switched off at the time of running of 10'' Extruder Line.	**0.271**					**1.9162**	**0.016**
17)To reduce the electrical power consumption in cooling tower fan motor by installation of 7.5 KW VFD	**0.157**					**1.1156**	**0.00**
18) Reduction in power consumption by installation of 22 KW VFD in process circulation pump.	**0.368**					**2.6031**	**0.00**
19) Insulation of Curing press dome manholes & steam line valves bonnets		**79.04**			**65.60**	**7.19**	**1.7000**
20) Increase Hot Water recovery cycle in TCP Timer		**123.13**			**102.19**	**11.20**	**0.50**
21) Insulation of damaged domes & valves, steam pipe lines.		**62.88**			**52.19**	**5.71**	**2.00000**
22) Using of excess flash steam to hot water preheater tank which is coming from condensate line		**60.46**			**50.18**	**5.50**	**3.00000**
23)Fuel saving by stopping steam supply of non scheduled machines.		**21.98**			**18.24**	**2.00**	**NIL**
24)Saving of fuel by reducing on & off of boiler running operation		**34.08**			**28.28**	**3.10**	**1.50**
25)Attending steam leakages on daily basis in the plant		**24.22**			**20.10**	**2.20**	**2.00**
26) Servicing & replacement of malfunctioning of traps.		**36.27**			**30.10**	**3.30**	**1.50**
Total	**8.79**	**442.06**			**366.88**	**104.37**	**40.18**

Energy Policy

- The company stands committed to optimally utilize & conserve the various forms of energy by :
- Closely monitor & control the consumption of various forms of energy through an effective Energy management system.
- Adopt appropriate energy conservation technologies.
- Maximize the use of cheaper & easily available forms of energy.
- Make energy conservation a mass movement with the involvement of all employees.
- Maximize recovery of waste energy.
- Reduce specific energy consumption every year minimum by1%.

Managing Director

15th July, 2013