

Policy	Objectives & Targets for Year 2005	Activity Results	Objectives & Targets for Year 2006
Conservation of Energy & Natural Resources	Steel Reuse and Reduction Activity	*Master sheet & blank size reduction *Offal Utilization Yield Ratio Achieved = 74%	Steel Reuse and Reduction Activity
	Steel reuse = 34.68 Kg/Vehicle Steel Reduce = 22.06 Kg/Vehicle Yield Ratio = 68%		Steel Reuse of 35.7 kg/Veh Steel reduce of 22.7 kg/Veh Yield ratio of 70%
	Electricity Consumption Reduction	*Improvement of power factor is completed. PF=0.99 * Electricity Consumption: 674 KWH/Veh (due to Lower Production Volume)	Electricity Consumption Reduction
	*Implement measures to Electricity Consumption Reduction		*Implement measures to target consumption of electricity : 570.8 Kwh/Vehicle
	LPG Consumption Reduction	*Process Optimization is ongoing activity in Paint Shop * LPG Conusmption: 35.07 Kgs/Veh	LPG Consumption Reduction
	*Implement measures to LPG consumption reduction		*Implement measures to target LPG consumption as 28.64 Kg/Vehicle
	Water Consumption Reduction	*Water reduction by intro of ACFC for all DGs is completed Water Conusmption: 5.6 m3/Veh	Water Consumption Reduction
	*Implement measures to water consumption reduction		*Implement measures to target consumption of water: 4.47m3/vehicle
Green Belt Develpoment	To promote natural resource conservation and Greenary build up 30% of the land	*Development & Maintenance of Greenary and promote the concept in TKM+outside * Plantation of 200 Saplings at the boundary	To promote natural resource conservation and Greenery build up 30% of the land
Supplier's & Dealer's Support	*Support 08 Suppliers for ISO 14001 certification by Dec 2005	*Facilitate design,development of EMS	*Support 03 Suppliers for ISO 14001 certification by March 2007
		*Conduct group trainings and evaluate & record	
	*Support 06 Dealers for ISO 14001 certification by Dec 2005	*Dealers CM training(Basics+Internal Audit) A system is established to monitor Environment performance at dealer's point	*Support 10 Dealers for ISO 14001 certification by March 2007

4. RESOURCE CONSERVATION

Specific Goals:

- Reduce usage of primary raw materials through "Master sheet & blank size reduction" and "Offal Utilization"

- Limit usage of Oils through recycle of waste oils

4.1 Steel Reuse and Reduction Activity:

Resource Conservation and/or its efficient usage for maximum benefits are a key issue for any industry to enhance the better environmental performance.

To ensure the effective utilization of resources such as iron and steel. TKM has implemented various measures to reduce resource loss, such as improving the yield in stamping process, reducing the number of defective pieces, and utilization of offal's for service parts manufacturing. TKM with its efforts towards resource conservation continues to be prominent achiever in steel yield ratio among all global Toyota affiliate. Scrap parts are being utilized to produce smaller components. The yearly trend of Reuse of steel scrap and Reduction of Steel usage outlines good yield ratio of 74%.

4.2 Waste Management:

All the employees and contract workers have been trained on waste segregation at source (Fig 4). The segregated waste is being disposed to the value yard, where all these waste are being stored separately and disposed through TKM approved contractors for recycling. In 2005, various activities were carried out for the reduction of non-hazardous waste through effective implementation of 3R (Reuse, Recycle, Reduce) concept during Environment Month. The Non-Hazardous waste generated during 2005 was accounted to be 21.3 Kgs/Veh.



Fig 4 : Segregation at source

Waste Minimization Activity

- Wastes like used waste oil from the press shop is recycled in-house, and life span of an oil has increased and thus reducing the hazardous waste quantity.
- Recovery of used thinner is done in paint shop and utilization of the same for the process, thus leading to the reduction of Volatile Organic Compound emission
- Other house hold waste, metal scrap & plastic waste components are being sold to TKM approved outside vendors for recycling.
- The hazardous waste quantity generation has reduced drastically due to the natural drying of paint process waste. Also, wastewater sludge containing higher percentage of moisture content is dewatered through Decanting process thus ultimately reducing the generation of hazardous waste in FY 2005

Hazardous waste management (HWM):

MS/HDPE Barrel for storage of hazardous waste. Labeling of hazardous waste is carried as per legal requirement. The hazardous waste is stored over Impervious flooring to protect from the land contamination in case of eventualities. shelter to protect against the weather conditions. Spill kit is provided for handling any leakages/ Spillages from the Containers

The TMC waste management cell (Fig 5) had visited TKM to ensure and witness the hazardous waste management system. They audited the entire hazardous waste storage area and appreciated hazardous waste management system followed in TKM.



Fig 5 : TMC Auditing HWM to TKM