

## Eco-factory: Our next step towards Sustainability...

ECO FA

TKM plant #2, base its operations on Toyota Eco-factory concept, designed to contribute towards reducing overall environmental impact.

Eco-factory activities are designed to firmly integrate environmental response from the planning & design stage through to the start of the operations.

**Carbon dioxide from Manufacturing process:** Slim & Simple production line ensures the CO<sub>2</sub> Emission reduction from manufacturing process. Some of the key technologies are Innovative Stamping process, steam-less approach, global body line with robots, and 3-WET painting technology.

**Volatile Organic Compound:** Though there is no mandatory requirement from legislation point of view, it is our global environment policy to reduce VOC emission from painting process. In this view, we will be introducing Water-borne paint technology. Regenerative Thermal Oxidizers (RTO) will ensure further destruction of VOCs emitted from painting operations.



### INNOVATIVE TECHNOLOGIES

**Press Shop**  
Energy Efficient SERVO PRESS



**Weld Shop**  
Energy Efficient GLOBAL BODY LINE



**Paint Shop**  
Zero Solvent Usage - Water Based Paint



**Paint Shop**  
Zero VOC Emission - RTO



**Utilities**  
Treated Water Recycling Technology





## FACTORY

SUSTAINABLE PLANT  
ACTIVITIESGreenery Development  
Afforestation ActivityClean Energy  
Wind MillsClean Energy  
Solar EnergyClean Environment  
Butterfly ParkClean Mind Eco  
Training Centre

**Water Conservation:** water recycling technology will be carried forward from TKM Plant #1. Second plant will have enhanced water recycling of 70% compared to Plant#1 [50%]. Recycling will be done with Membrane Bio-Reactor [MBR] followed by 3-stage reverse osmosis unit. Emphasis has been made for separation of wastewater streams from the source based on the Strength/characteristics of wastewater thus minimizes the fluctuations during the treatment.

**Waste Minimization:** growing needs of the society is resulting with huge quantity of waste generation. It will be essential for TKM to minimize the burden through ensuring the reduction & recycling of waste material, thus achieve the ZERO LANDFILL waste. TKM is targeting to promote the recycling of waste material through co-processing technology in Cement plant.



We do not inherit the earth  
from our ancestors, we  
borrow it from our  
children...

-Mohandas Karamchand Gandhi





