

**SERVICES-ENGINEERING-ENERGY MANAGEMENT SYSTEM-  
WATER & ENERGY CONSERVATION PLAN FY-2017**

For the year: 2017

Frequency: Annual

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S. No.	ACTION	SAVINGS	RESPONSIBLE	COMPLETION DATE
1.	Installation of 02 Nos. Energy Efficient Engines, Jenbacher Gas Generator Model JGS 420.	At 90% Load, will produce 1,497,600 kWh/month. Reduction of CO <sub>2</sub> : 31,861 kg/month	Engineering	March to April, 2017
2.	Installation of Waste Heat Recovery Boiler on Jenbacher Engine's Exhaust.	At 90% Load, will produce 998Tons/Month of Steam. Reduction of CO <sub>2</sub> : 18,603 kg/month (* Compare with Existing WKS Engine's)	Engineering	April, 2017
3.	Installation of Hot Water Absorption Chiller, on Engine's Jacket Water (617 USRT).	At 85% Load, will save, 1,149,927 kWh/month. Reduction of CO <sub>2</sub> : 601,411 kg/month.	Engineering / Weaving	May to June, 2017
4.	Installation of Hot Water Absorption Chiller, on Engine's Jacket Water (570 USRT).	At 85% Load, will save, 1,062,984 kWh/month. Reduction of CO <sub>2</sub> : 555,940 kg/month.	Engineering / Spinning	June to July, 2017
5.	Virtualization of six physical servers into one virtual machine.	Energy Saving: 15,552 kWh/year Reduction of CO <sub>2</sub> : 8,134 kg/year.	Business Technology	4 <sup>th</sup> Quarter 2017
6.	Paperless environment through online request form.	Approximate paper saving 1.5 Tons/Year	Business Technology	2 <sup>nd</sup> Quarter 2017
7.	Energy conservation through control and intelligent lights at door movement of server room.	Energy Saving: Approximately 5KWh/year. Reduction of CO <sub>2</sub> : 2.615 kg/year.	Business Technology	3 <sup>rd</sup> Quarter 2017
8.	Conservation of Energy through 02 Inverter AC.	Energy Saving: 1,740.960 kWh/year Reduction of CO <sub>2</sub> : 910.52 kg/year.	Business Technology	1 <sup>st</sup> Quarter 2017
9.	Emplacement of 02 LED Lights (18 watt) at System Admin Lab, in place of 04 traditional tube lights absorbing 72 watt energy.	Energy Saving: 707 kWh/year Reduction of CO <sub>2</sub> : 370 kg/year.	Business Technology	1 <sup>st</sup> Quarter 2017

