

Khutale Engineering Pvt. Ltd.

WELCOMES

You



Location : Satara (115 Kms away from Pune)

Manpower-64 (26 Females + 38 Males)

Floor area 10700 sq ft. (+2800 Sq. Ft Expansion)

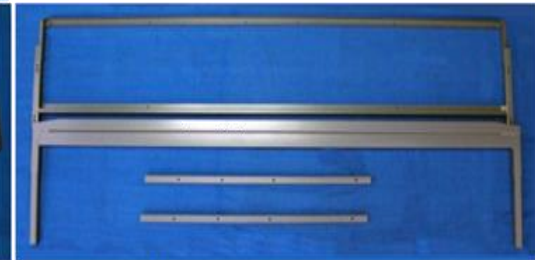
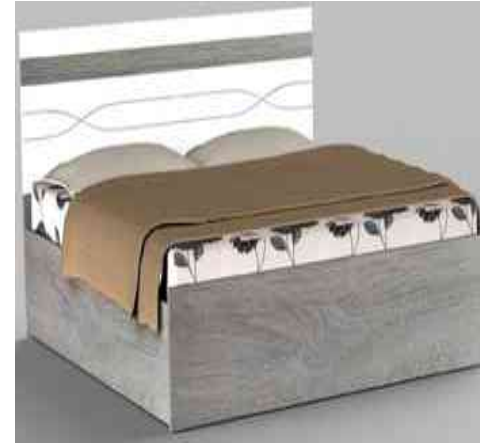
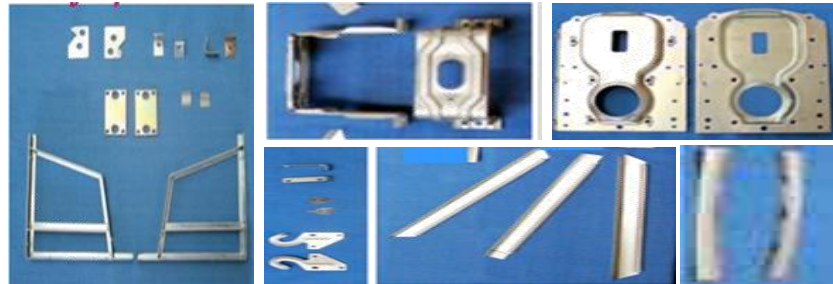
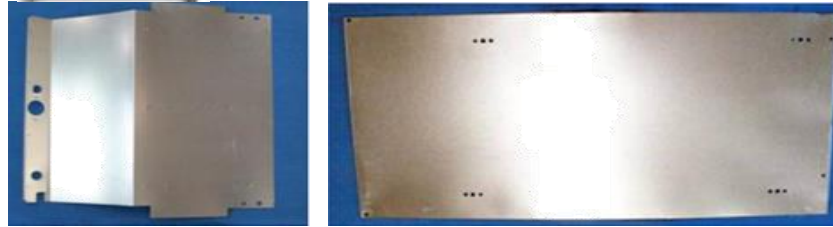


Garden Green Outside & Hospital Clean Inside...!



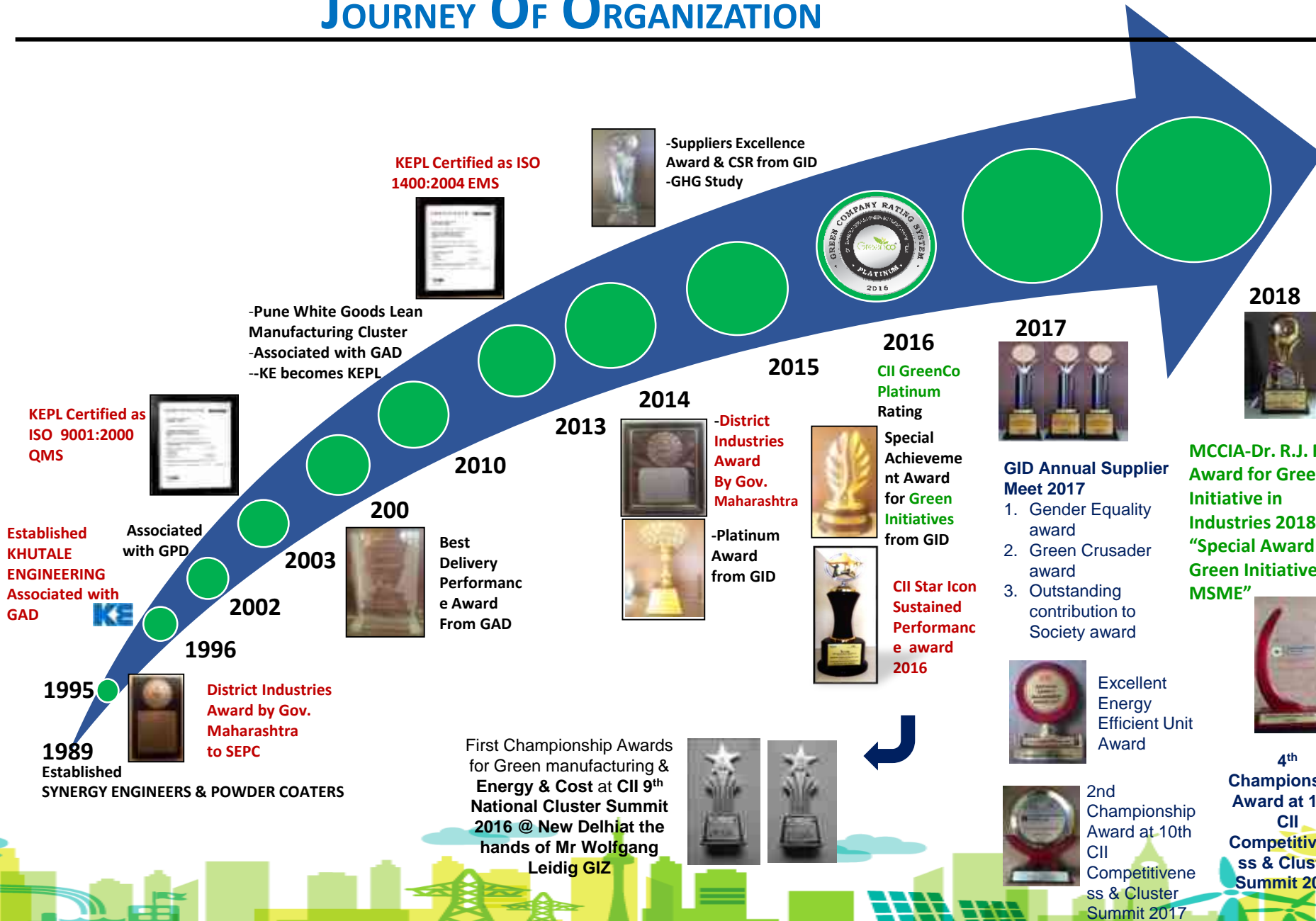
- Manufacturer of Sheet Metal press components ,
- Tubular fabrication, Assemblies with ConveyORIZED Powder Coating, ROHS Zinc Plating, Inspection – Testing, ETP and allied facilities
- An ISO 9001:2015 QMS & ISO 14001:2015 EMS certified company.
- Business Excellence Manufacturing Organization
- CRISIL SE1B rating
- CII GreenCo Platinum Rated Company.







JOURNEY OF ORGANIZATION



1989
Established
SYNERGY ENGINEERS & POWDER COATERS



1995
District Industries
Award by Gov.
Maharashtra
to SEPC

Established
KHUTALE
ENGINEERING
Associated with
GAD



Associated
with GPD

1996

2002

2003



Best
Delivery
Performance
Award
From GAD

200

2010

-Pune White Goods Lean
Manufacturing Cluster
-Associated with GAD
--KE becomes KEPL

KEPL Certified as
ISO 9001:2000
QMS



KEPL Certified as ISO
1400:2004 EMS



2013



-District
Industries
Award
By Gov.
Maharashtra

2014



-Platinum
Award
from GID

2015



Special
Achievement
Award
for Green
Initiatives
from GID

2016

CII GreenCo
Platinum
Rating



CII Star Icon
Sustained
Performance
award
2016

2017

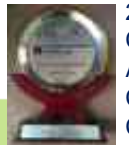


GID Annual Supplier
Meet 2017

1. Gender Equality award
2. Green Crusader award
3. Outstanding contribution to Society award



Excellent
Energy
Efficient Unit
Award



2nd
Championship
Award at 10th
CII
Competitiveness
& Cluster
Summit 2017



-Suppliers Excellence
Award & CSR from GID
-GHG Study



2018



MCCIA-Dr. R.J. Rathi
Award for Green
Initiative in
Industries 2018
"Special Award for
Green Initiative by
MSME"



4th
Championship
Award at 11th
CII
Competitiveness
& Cluster
Summit 2018



Approach prior to Lean & Green implementation lingered around

Profit & Numbers

Although we wished to make our organization World Class with

Best Work Practices

Manufacturing Excellence

Competitiveness

Productive

Efficient

Green



How to change the traditional bad practices ,Reduce Losses & make Transformation ?????



Only Lean & Green can bring any business out of Red.

Lean & Green Journey started....

Lean can be Green & Green can be Lean....



Lean & Green Journey begins..

1

Pune White Goods Lean Manufacturing Cluster

Initiated by Godrej Appliances & MCCIA, Pune in 2010.

2

CII Godrej Interio Vendor Basic Cluster-IV

Initiated by Godrej Interio & CII in June-2012

ISO 14001:2015 Initiated & Completed in 2013

CII Godrej Interio Advance Manufacturing Excellence Cluster

Initiated by Godrej Interio & CII in 2014

Green Manufacturing-GreenCo Rating initiated & Completed in

Initiated by Godrej Appliance & CII GBC ..

CII Godrej Interio ZED-Zero Defect Quality Cluster initiated in

6



TYPE OF WASTES

OVER-
PRODUCTION

DEFECTS

TRANSPORTATION

WAITING

INVENTORY

MOTION

PROCESSING

RESOURCES

ENERGY
WATER
GAS
RAW -
MATERIAL





Why Green Initiatives ????

Concerned about impending impact on the Environment & phenomenon of Climate change.

awareness

Motivation of Customer Godrej Appliance & Godrej Interio & Emulation of their Good & Green Practices.

Compliance of ISO 14001:20 EMS Certification & fulfillment of management programs-Optimal use of Natural Resources & Better Emission & discharge standards.

Learning of CII Lean Clusters Journey



Best Practices Before GreenCo

ETP was in Place. Rain Water Harvesting. Drip irrigation. Sprinklers.
Transparent roof Sheets. Roof Ventilators.

Usage of CFLs/LEDs . Timers. APFC Panel. Usage of optimum HP of
Elect Motors.

Usage of Chrome free PT chemicals. RoHS Compliance. Member of
Common Hazardous Waste Treatment, Storage & Disposal Facility
(CHWTSDF)

Recording of Electricity, Water , LPG & RM consumption & Scrap
generation religiously since inception.

Garden surrounding the factory. Efforts to create & maintain
Biodiversity

CSR activities Swatchhata ,Shramadan, Awareness

ROHS -GHG Study, ISO 14001-2004 EMS & Incentive by GID, Green
Data Generation, Energy Audit , Hand holding Trainings



Formation of GreenCo implementation cell and defining roles and responsibilities. Green Vision, Green Policy, Green Purchase Policy made. Analyzing, Monitoring Data for Specific consumptions after variance study. Excellent synchronization of various processes
Focused efforts towards Goal.

Performance Parameters

The Green Company Rating System advocates a performance based approach.

Energy Efficiency

Water Conservation

Renewable Energy

Green House Gas Emission

Waste Management

Material Conservation Recycling & Recyclability

Green Supply Chain

Other Areas (Ventilation, Surroundings, Site location, Innovation & Product Stewardship)



GREEN VISION

Environment
Friendly
Products,
Processes &
Operations

RoHS Compliant
products &
processes, GHG
emission
reduction,
Green Supply
Chain & CSR

Energy
Conservation

5% reduction in
Energy
consumption
YoY
100% Green
Power by 2020.

Water
Conservation

5% reduction in
Water
consumption
YoY

Material
Conservation

0.5%
improvement
in RM yield
YoY

Waste
Reduction

Zero
Waste to
Land Fill



Green Policy

Green Policy

is committed to Environment and conserve Natural Resources.

The guiding principle of our Green Policy is ,

5 R - Reduce, Reuse, Recycle, Renew and Respect .

We are committed to continually improve the Green performance in our Activities , Products and Services.

We will strive to :

Conserve Natural resources such as Energy, Water, RM by optimization of their usage. Ensure the use of energy efficient Processes , Products & Technologies to benefit all our stakeholders.

Adopt measures to prevent pollution by monitoring & controlling Process Water discharge, Air emission , Waste generation & Zero Landfill.

Recognize and reward the efforts of our employees in conservation of natural resources.

Share and enrich our experiences in resource conservation within the company.

Promote use of Renewable Energy resources and 100% Green Power by 2020.

Abide by the legal requirements.

We will continue to ensure that our operations comply with all local ,state and central statutory Rules Regulations and standards, relating to environment & conservation of natural resources.

This policy is made available to all employees & our stakeholders.

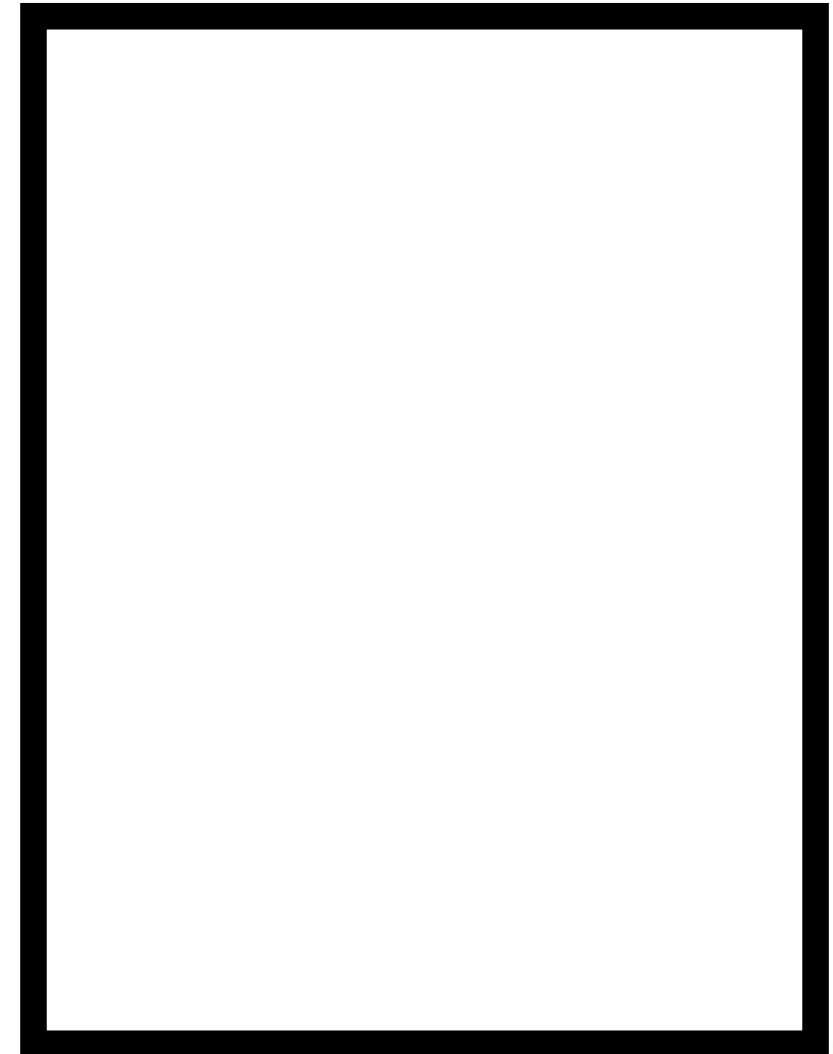
Place: Satara

Shirish P. Khutale

Date : 5th June 2015 (World Environment Day)

CMD

Pledge For Energy Conservation



Green Initiatives Undertaken By The Company

1. ENERGY CONSERVATION
2. WATER CONSERVATION
3. MATERIAL CONSERVATION
4. GHG REDUCTION TRANSPORTATION
5. RENEWABLE ENERGY
6. WASTE MANAGEMENT
7. GREEN SUPPLY CHAIN
8. OTHER



ENERGY EFFICIENCY



Best Practices at KEPL Unit

Energy Efficiency

Various initiatives on reduction in specific energy consumption

Monitoring of energy consumption at various processes through energy meters and conducting variance analysis

PQCDSME monitoring and display

Substantial reduction in specific energy consumption

Good awareness creation programs for involvement of operators and their families

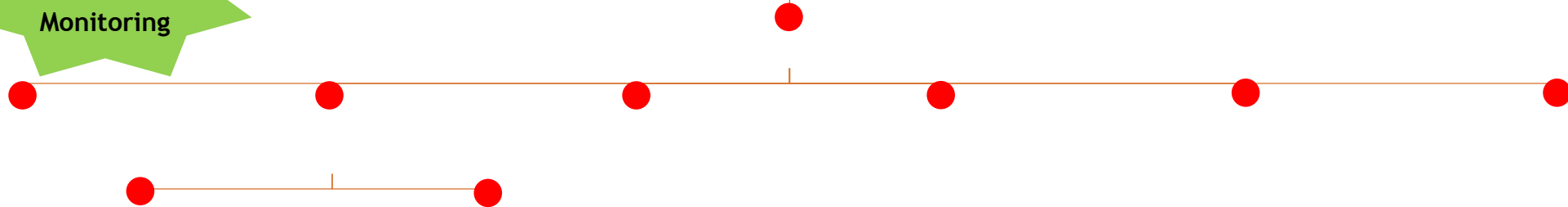
Energy efficiency operational practices

5S, My Machine, Preventive maintenance



100% ENERGY Monitoring

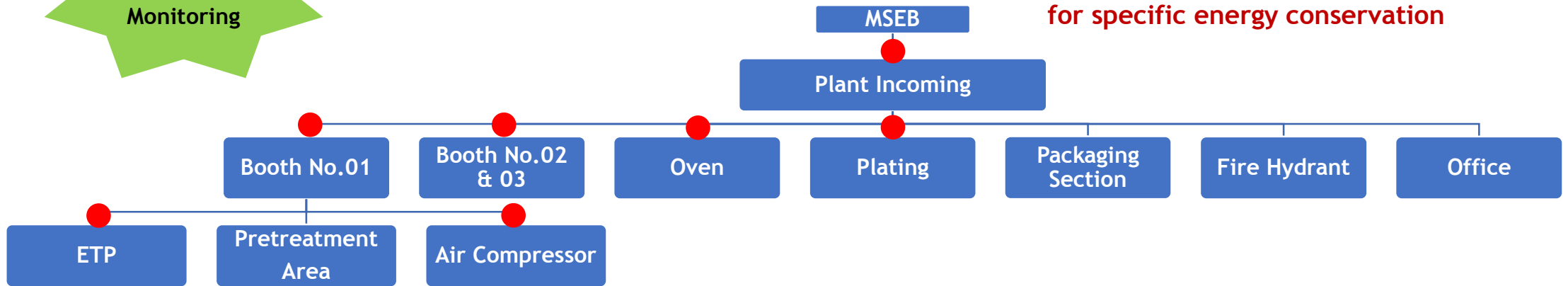
● Total 09 Energy Meters fitted for specific energy conservation



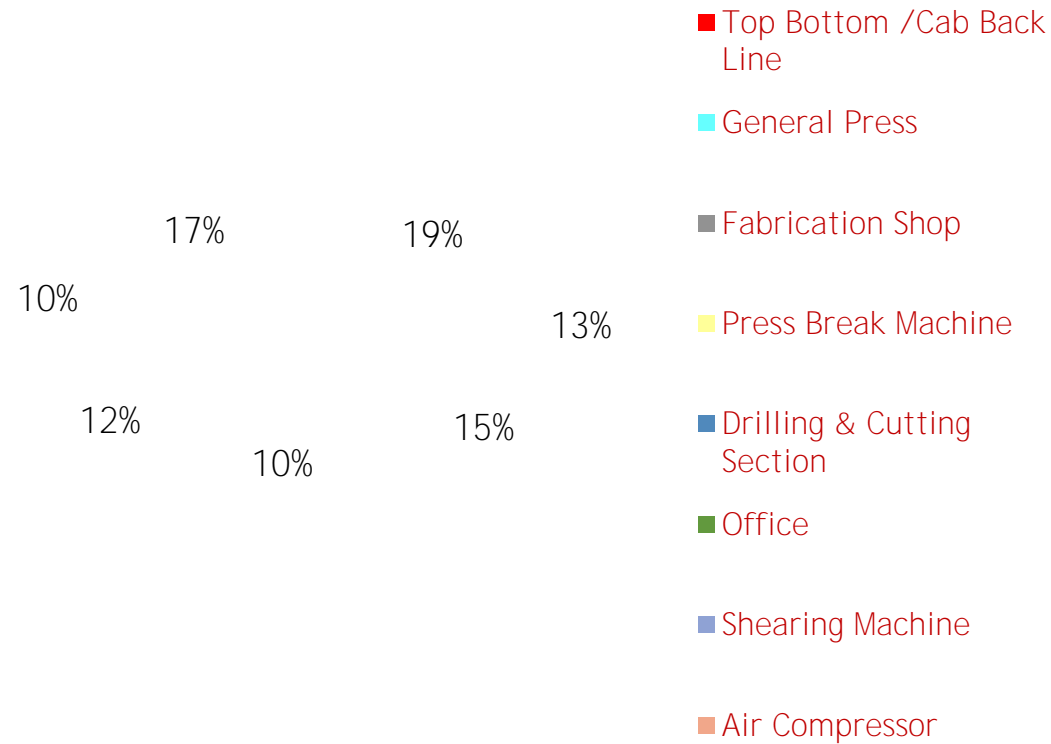
Distribution of Electricity

83% ENERGY Monitoring

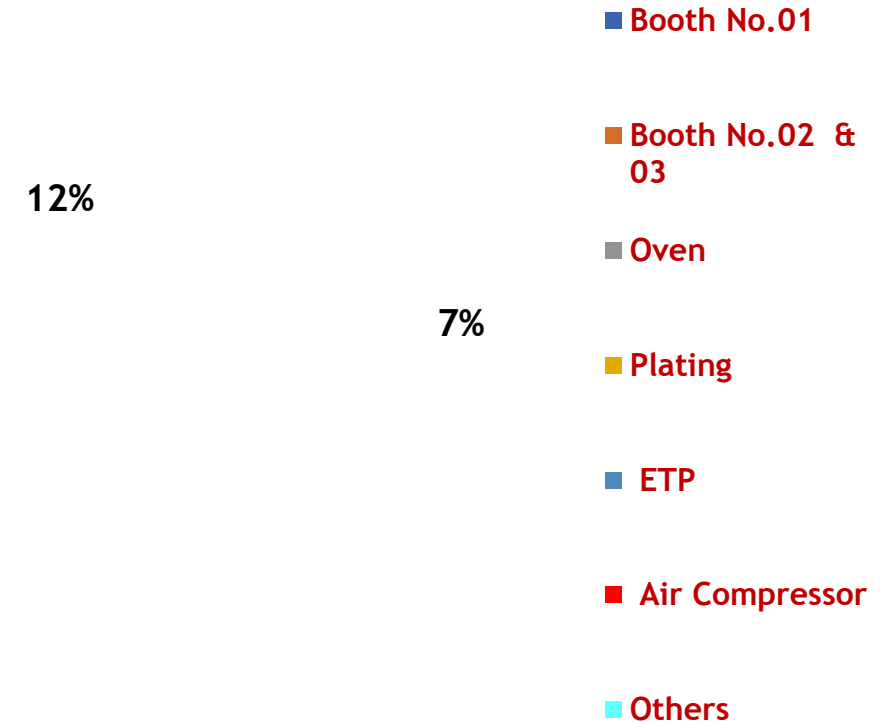
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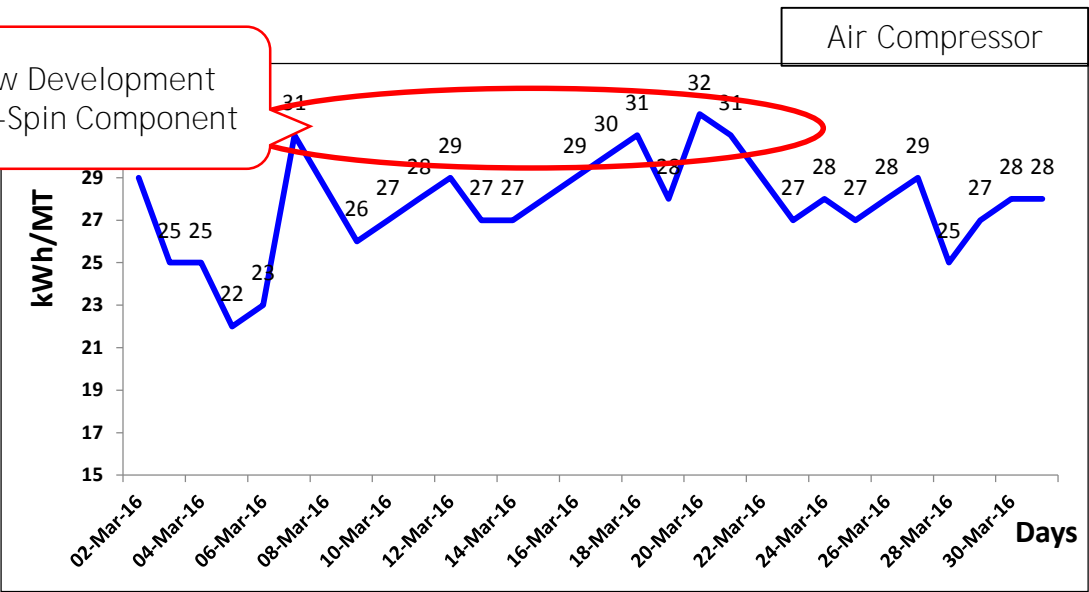
Electricity Consumption Contributors (KEPL)



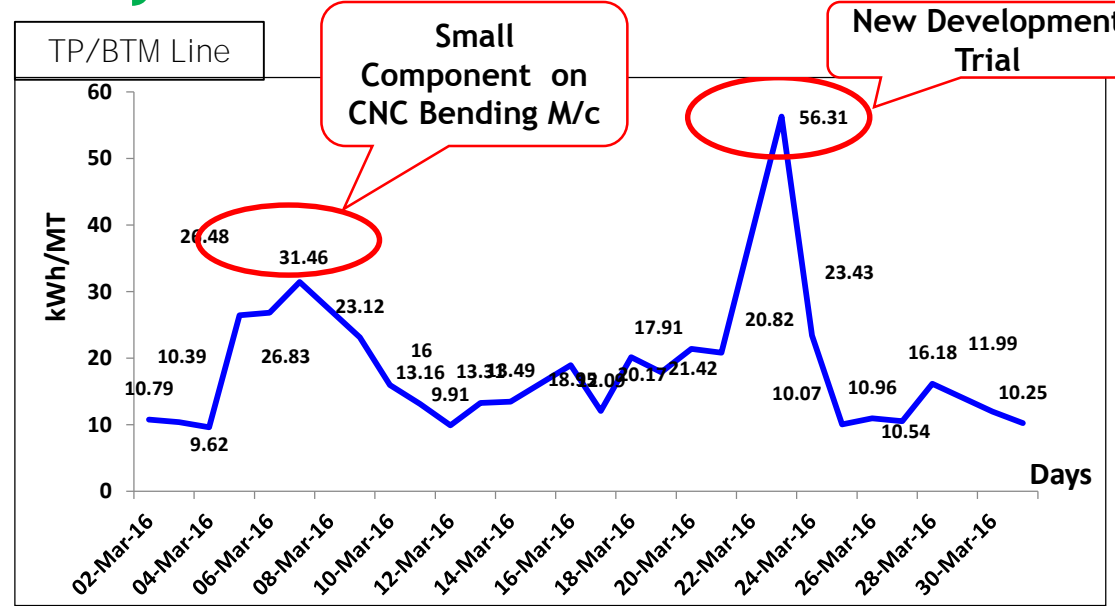
Electricity Consumption Contributors(SEPC)



New Development Trial-Spin Component



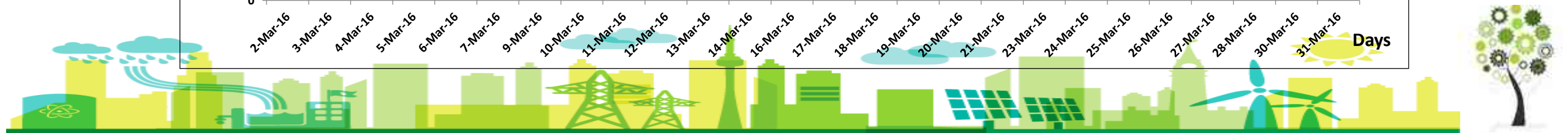
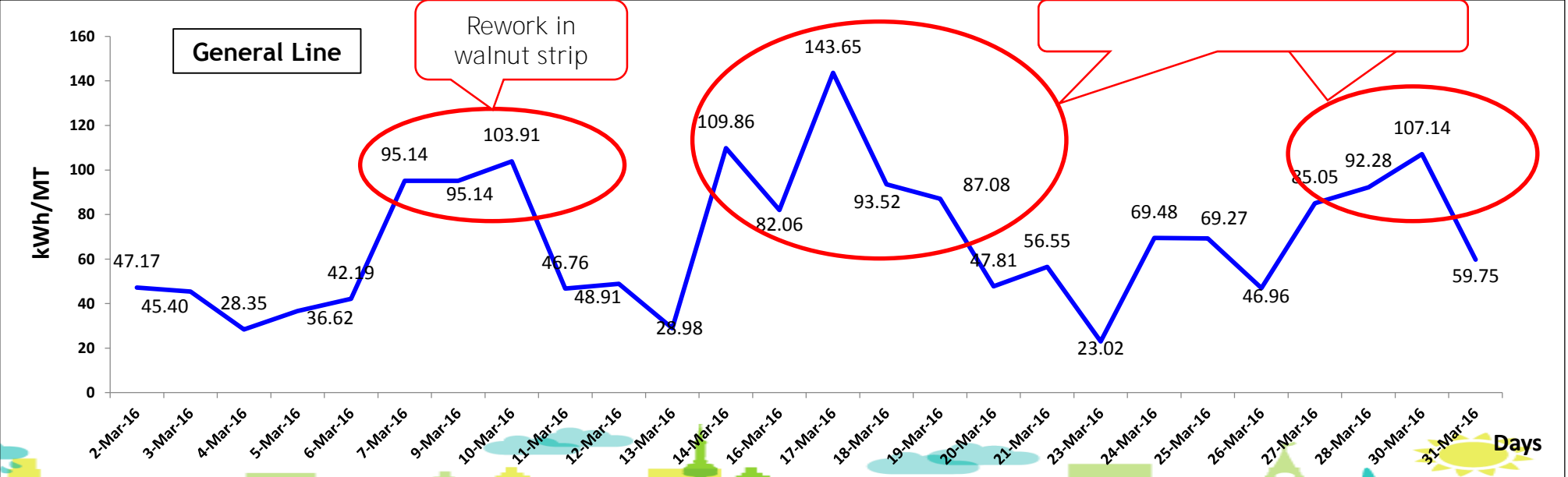
Small Component on CNC Bending M/c



New Development Trial

General Line

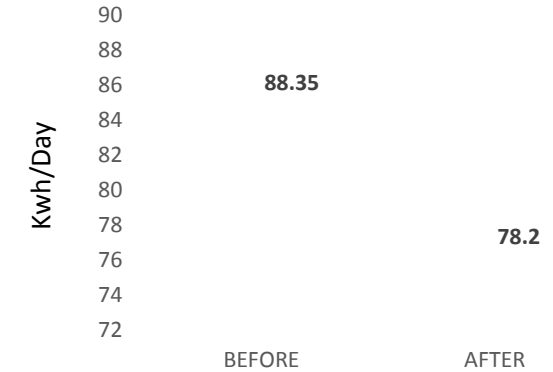
Rework in walnut strip



Before

After

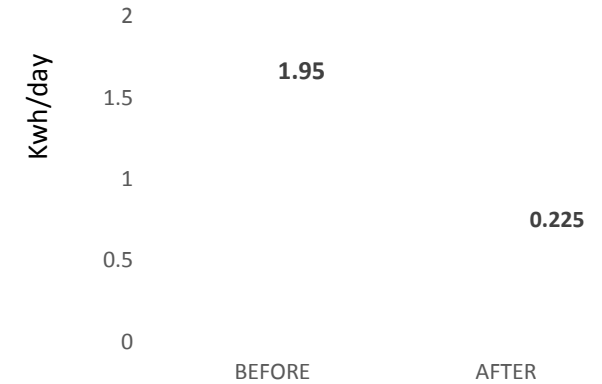
Results



Reciprocating Air Compressor

Energy efficient Screw Compressor

Benefits : saving 10.15 Kwh/Day Horizontal Deployment : Use screw compressor in both KEPL & SEPC Unit.



Angle cutting on cut-off Machine.

Die designed to cut in single stroke)

Benefits : Saved 1.72 Kwh/Day Horizontal Deployment : Square & Rectangular pipe and Rod cutting



Before

After

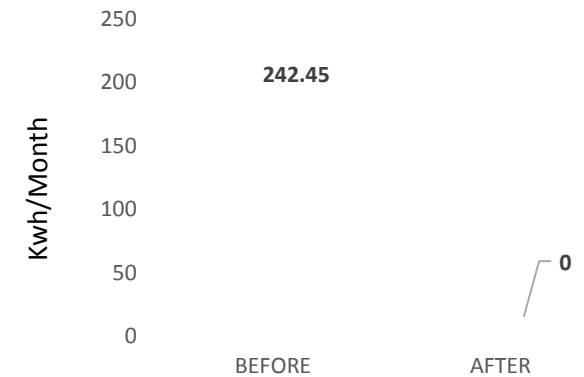
Results



Machine run with out VFD

Benefits : saving 0.41 Kwh/Day per machine

Horizontal Deployment : Installed on 4 presses & Planned for 5 more Presses



Std. sheets needing shearing

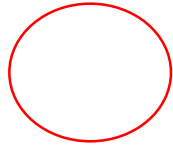
Benefits : saving 242.45 Kwh/Month (for 150 Sets/D Production)

Cut to size RM

Horizontal Deployment : Thk. 0.45 -Coil 4 comps, 0.25 CTS 14 comps, 0.8 CTS 4 comps, 1.0 & 2.0 CTS 7 comps. 0.8 CTL 6 comp.



Before



Use of CFL (1718 Watts)

Benefits : Saved 848 watts per Day

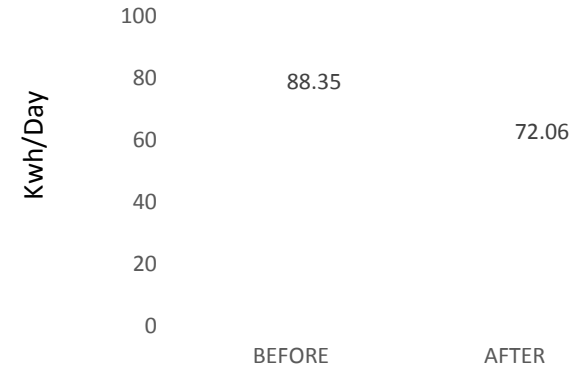
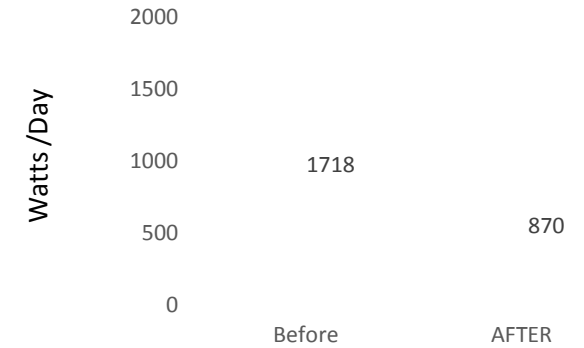
After



Replace CFL by LED(870Watts)

Horizontal Deployment : All CFL changed to LED

Results



Conventional Air gun

Benefits : Saved 16.29 Kwh/Day

Trans vector Nozzle gun

Horizontal Deployment : Replace all 3 air guns by Trans vector AirGuns



Before

After

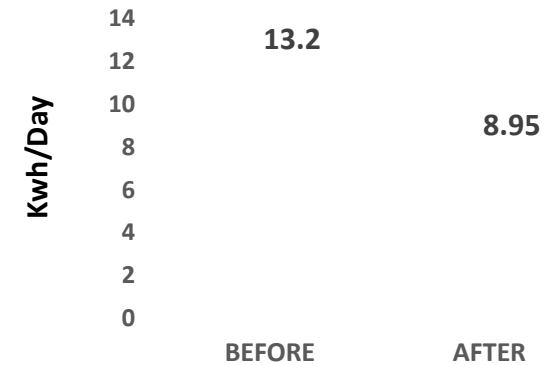
Results



trolleys

Benefits : Saved 2.98 Kwh/ Day Horizontal Deployment : To make additional 4 trolleys

Results



Powder Recovery Blower Motor (3 HP)

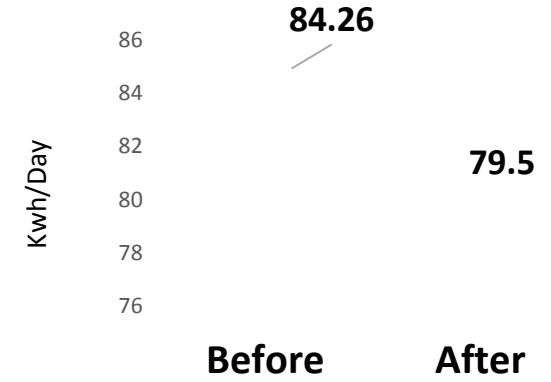
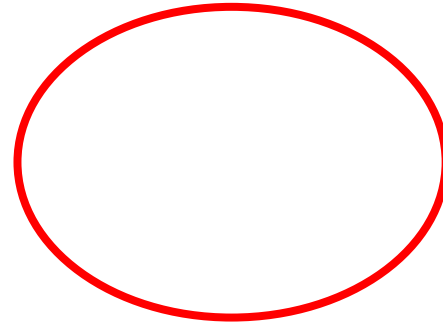
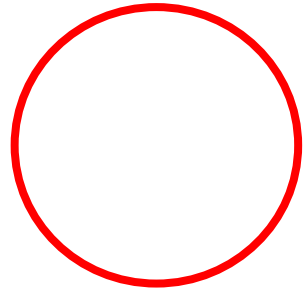
Powder Recovery Blower Motor (2 HP)

Benefits : saving 4.25 Kwh/Day per Motor Horizontal Deployment : Other booths three motors replaced



Before

After



GI C Class MS Pipes were used for Air lines.

Aluminium high finished pipes used for Air line

Benefits : Saved 4.76 Kwh/ Day Horizontal Deployment : throughout the factory



Before

After

Results



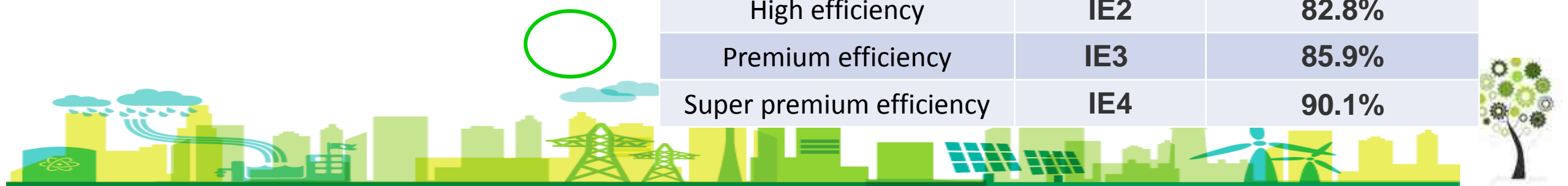
Electric Motor with IE1 class

Electric Motor with IE3 class

Benefits : Saved 2.1 Kwh/ Day

Horizontal Deployment : Backing Oven & Booth no1 (Total 4 motors replaced till date)

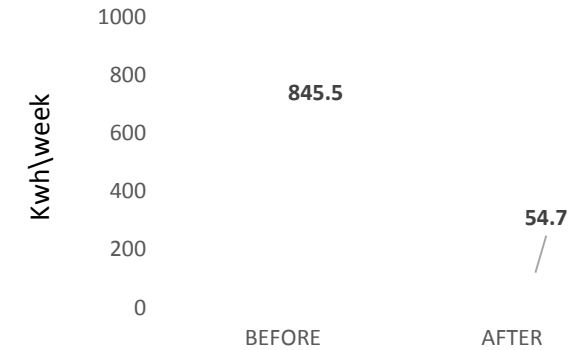
Class Type	Class Number	Efficiency
Standard efficiency	IE1	77.2%
High efficiency	IE2	82.8%
Premium efficiency	IE3	85.9%
Super premium efficiency	IE4	90.1%



Before

After

Results

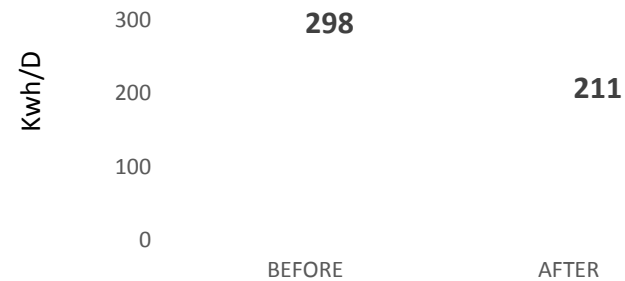


NC Shearing M/C For strip Parting

Press tool for strip(W-300) parting

Benefits : saving 208 Kwh/Week Horizontal Deployment : CNC Bending Machine (small component bending on power press)

Trend chart Analysis



29% Energy Saved

Benefits : Saved 87 Kwh / Day (29 % Energy saved)

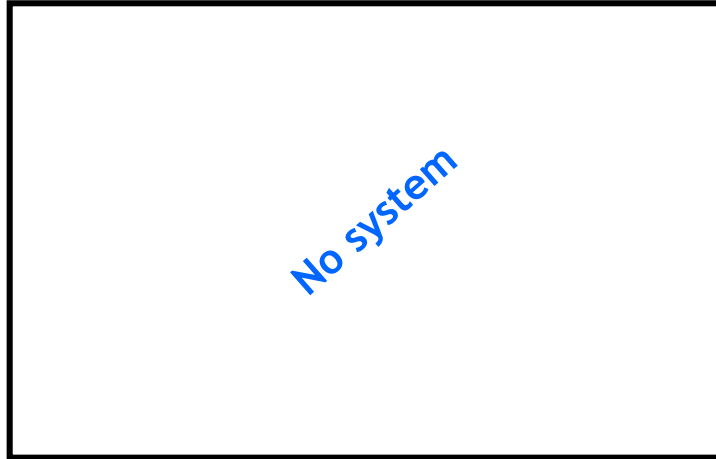


Instead of Procuring Catalogue Machine we ask mfg to customise the machine which suits to our process as well as product
Catalogue machine had 7hp motor and our product needs 5hp motor so that we procured Shearing machine with 5 hp motor.



2. WATER CONSERVATION

Before



MMIDC water use 100% for P.T
Benefit - 80KL saved / annum.

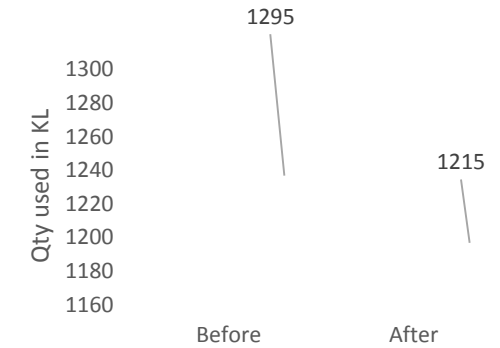
After

Rain water use for PT. for 3 to 4 months & not use MIDC water.

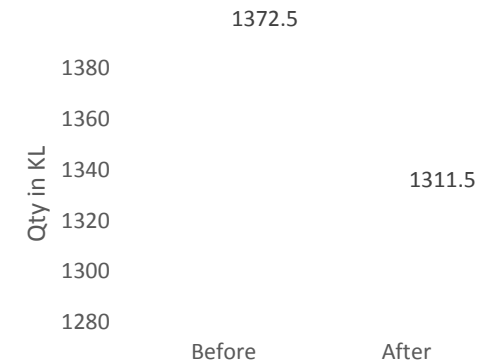
Horizontal Deployment :- for flushing tank & over head storage tank

Results

Use Qty in Ltr



Use Qty in Ltr



Convectional water taps.
Benefit :- 6KL save / day.

Push type water tap.
Horizontally deployment : - done at 10 places.



Before

After



Regular taps

Benefit - It reduces water wastage up to 80%

Water Saving Aerators

Water Saving Aerators

Aerator or Adaptor is an innovative water saving solutions for washbasin & sink taps or faucets. These aerators are designed to dispense water at defined flow rate (Say 2 to 8 Liters Per Minute) at any given water bar pressure at home/office with no sacrifice of rinsing ability & aesthetics.

It reduces water wastage up to 80% and pays for itself in no time.

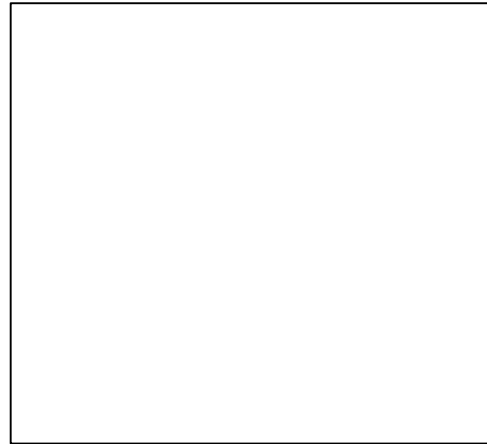
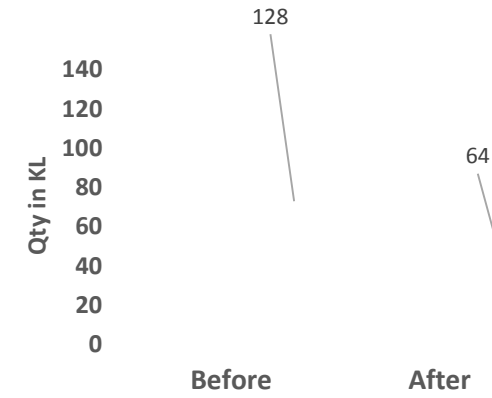


Before

After

Result

Water Used for gardening/annum



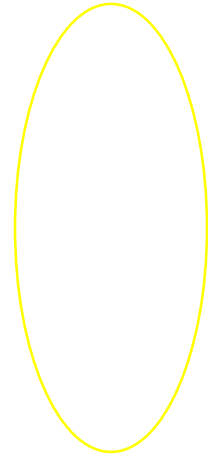
Manual watering in Gardening.

Drip Irrigation & Sprinkler system used in gardening

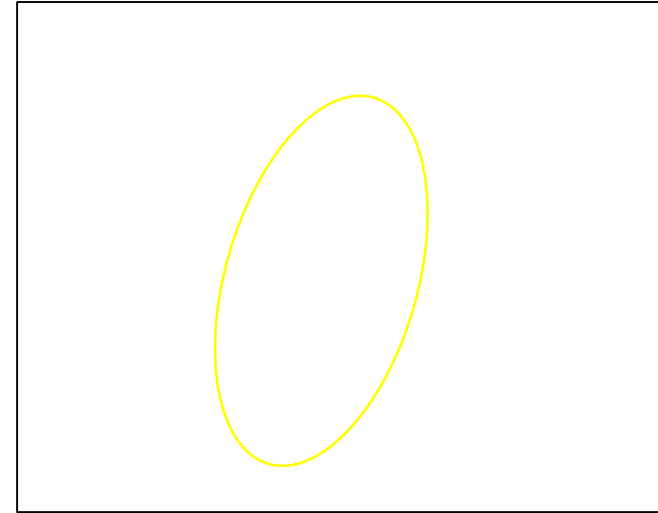
Benefit 64 KL saved / Annum.

Horizontal deployment:-For Overall Gardening

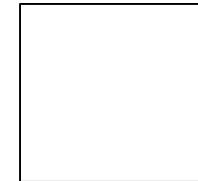




**Drip Irrigation system in garden
Water saved 11640 lit/Annum**



**Sprinklers for garden lawn
Water saved - 4080 lit/annum**



**ETP Water used for Water Rinse
14.8 KL/annum**

**Rain Water Harvesting Tank (capacity 10 kl)
Near Compressor Room**



Rain Water Harvesting System

Substituting overall fresh water consumption

Substituting overall fresh water consumption at SEPC Pre-treatment Area



Rain Water Harvesting System

Magic Pit - Recharging the ground water table

The Concept



Before



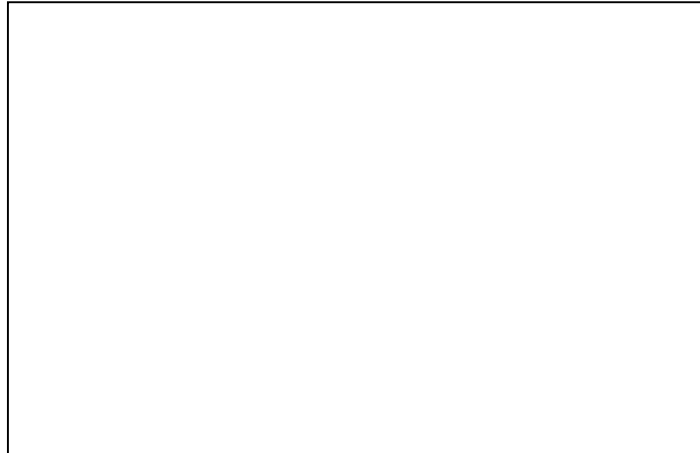
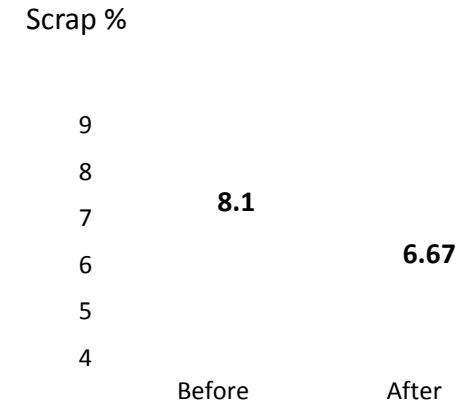
RM procured in standard size sheets.

Benefit : 1.43 % saved / annum Horizontal Deployment : In CTS category 7 Horizontal deployments done.

After

RM procured in Cut to Size.

Result



RM procured in standard size sheets.

Benefit :- 0.22 % saved / Annum.

RM procured in Coils form.

Horizontal Deployment : In CTS category 4 Horizontal deployments done.

Scrap %

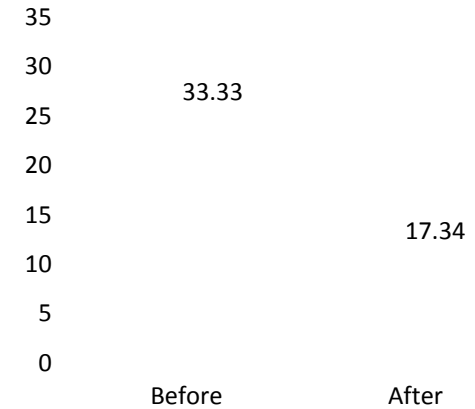


Result



TP/BTM strip with 12% Scrap
Benefits :-2.79% saved / annum

CTH clips are made out of this scrap
Horizontal Deployment :- CTS category 4 Horizontal deployments done.



Standard Punching Layout
Benefits : Reduction in utilization of material by 17.34 %
Horizontal Deployment : CTS category 4 Horizontal deployments done.

Strip Punching Layout Modified.



Cost Saving in LPG

Before

After

Result

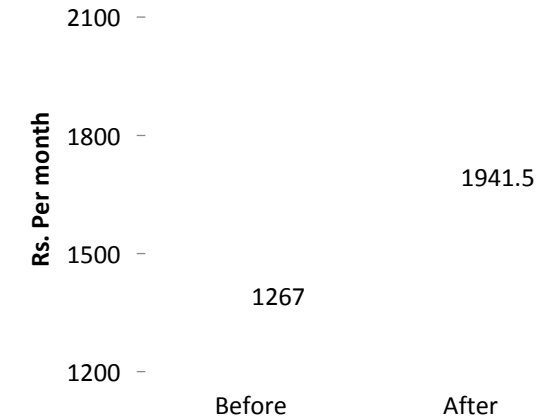
M. S. Trolley weighing 114 Kgs
consuming high LPG
Benefit : 19% LPG saving / annum.

Aluminium Trolley weighing 40 Kgs
Consuming low LPG
Horizontal Deployment : for 4 more trollies.

Under loading of baking trollies.
Benefit : Rs.8094/ Annum saved.

Optimum space utilization after
trolley modification.
Horizontal Deployment : In all backing trollies.

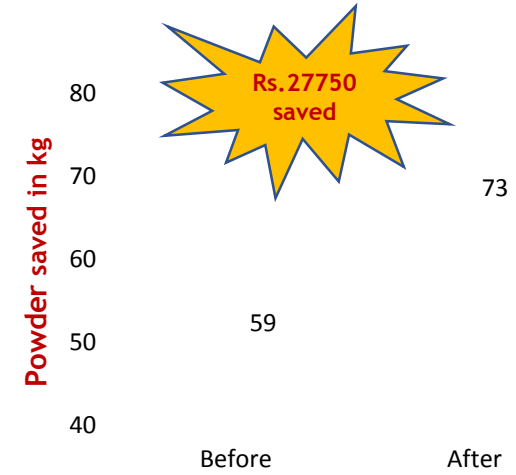
LPG Gas consumption kgs/sq.ft



Before

After

Result

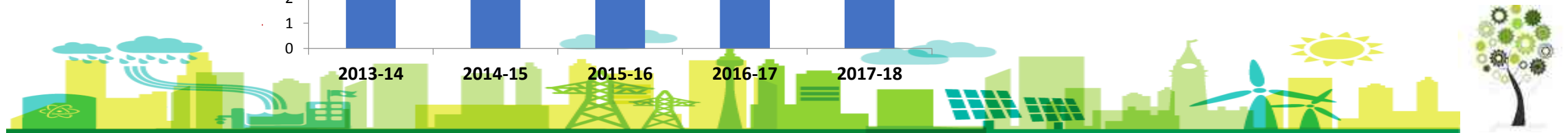
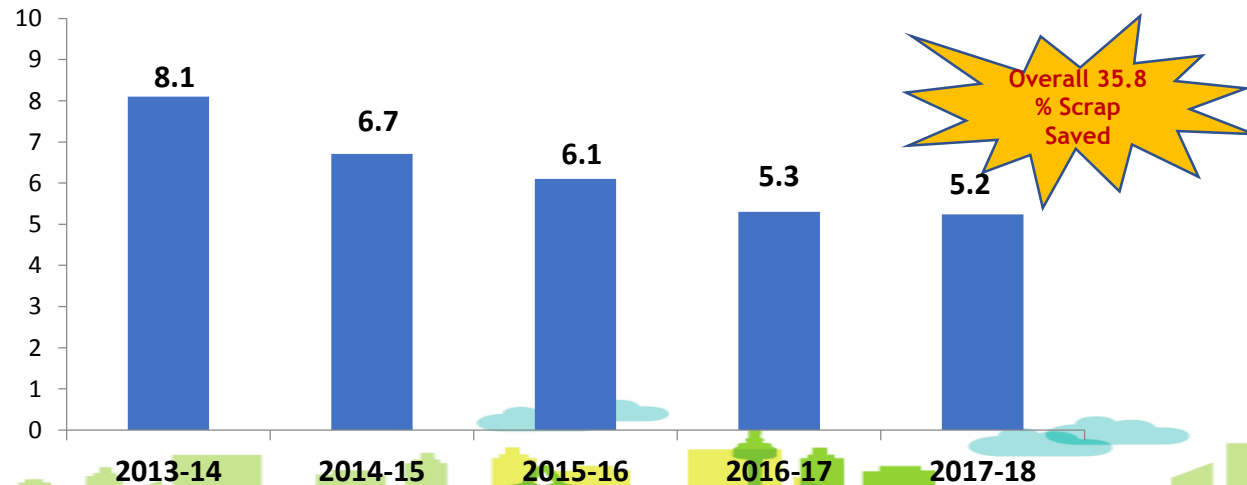


Over Spraying of powder outside the Booth.

Booth size extended with trays.

Benefit : 200 Grams powder saved per day. Rs 27750 / annum
Horizontal Deployment done for 2 Booths

OVERALL RM METAL SCRAP REDUCTION RESULTS



Methodology for Inventorisation of GHG Emission

Scope 1 :

- Diesel /Petrol Used in Company Owned Vehicles
- CO₂ Used In Welding
- LPG Used in oven
- Top up in AC
- Co₂ top up in fire extinguisher
- Kerosene (burning hangers)

Scope 2 :

- Total electricity consumed in plant by Grid.
- Green power

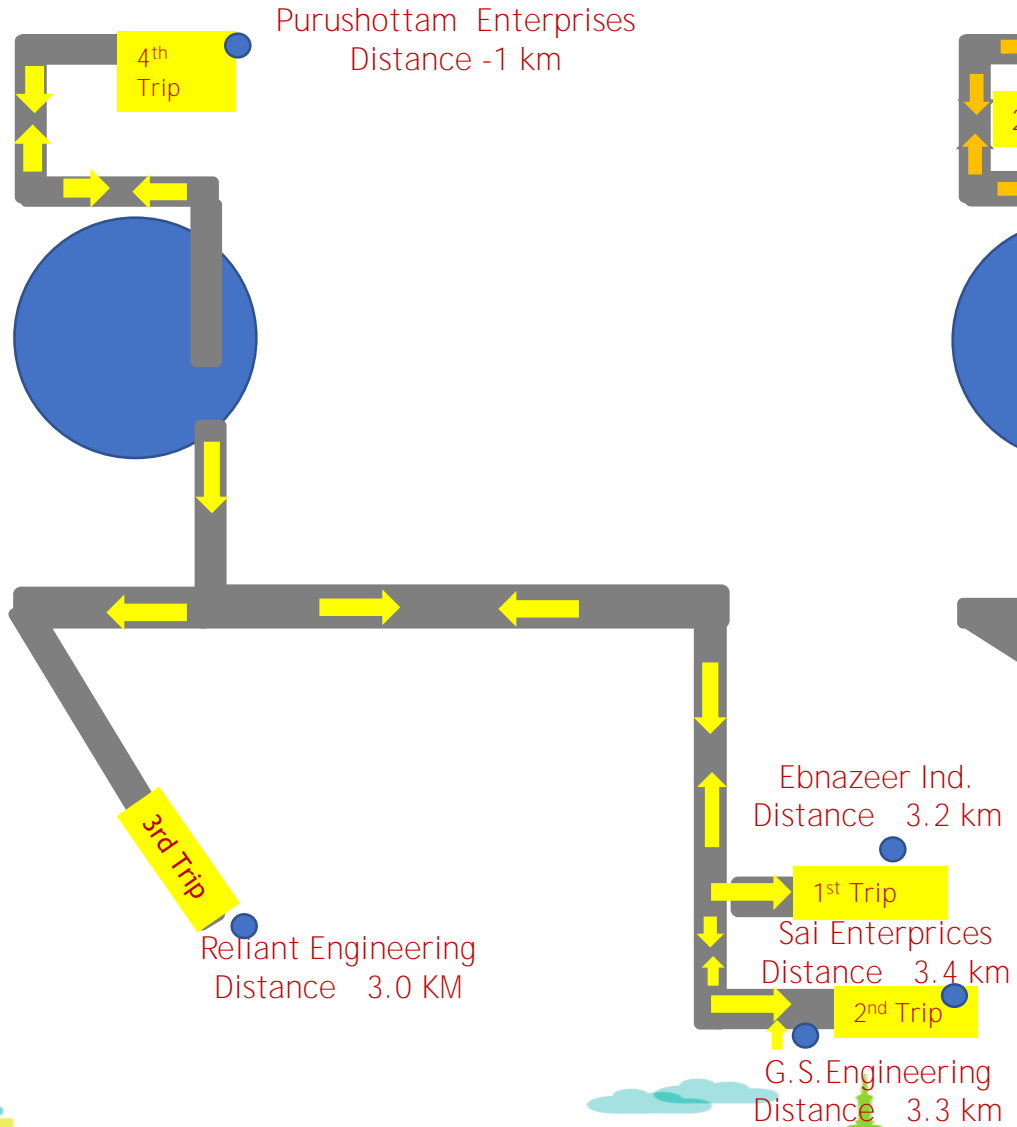
Scope 3 :

- Business Travel
- Material Transport
- Employee Transport

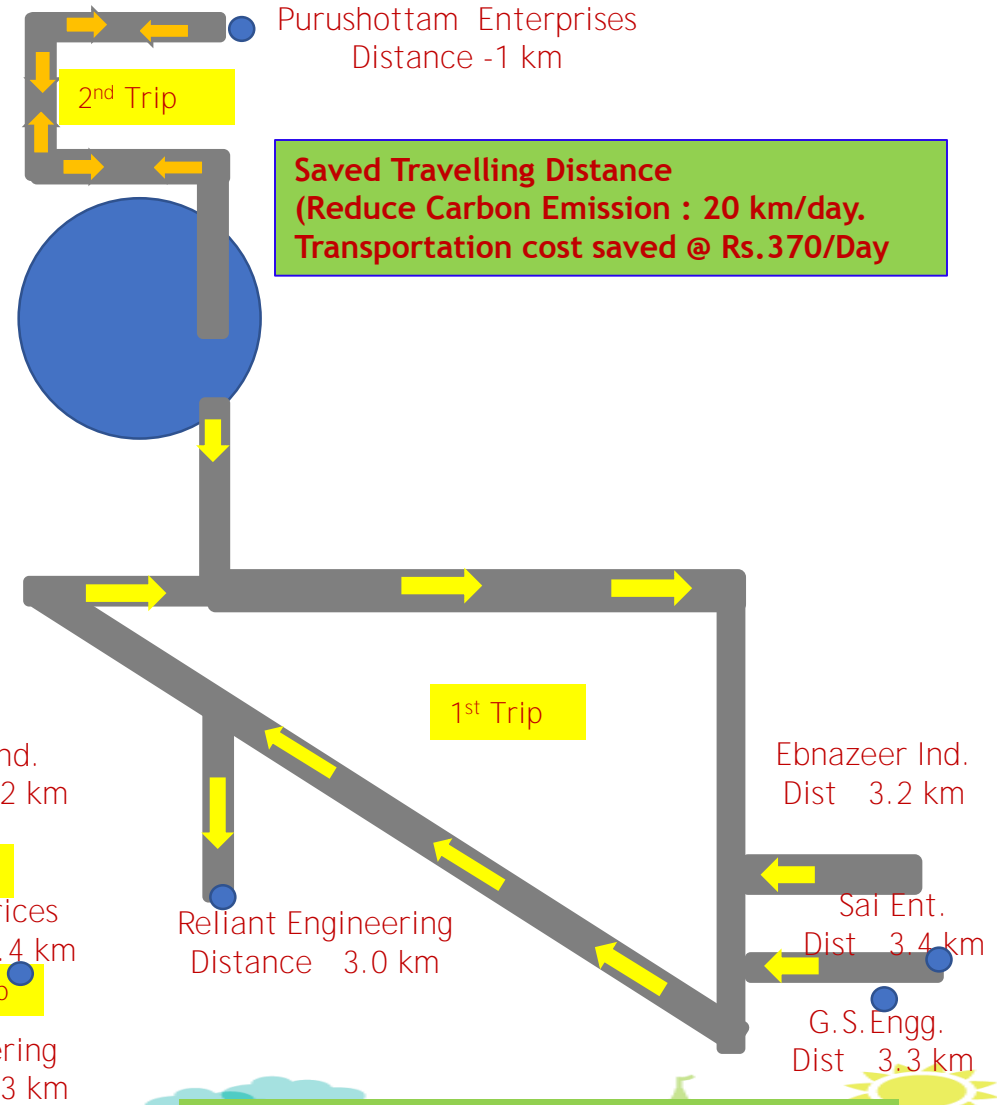


Milk Run Model

Before



After



**Saved Travelling Distance
(Reduce Carbon Emission : 20 km/day.
Transportation cost saved @ Rs.370/Day**

**Total Travelling 21.7 KM / day.
Transportation Charges saved @Rs.400/Day**



Employee Commute- Started Using 1 bike for 2
Employee & Bicycle usage

Milk Van Concept For Local Supplier

Optimum Utilization Of transport Vehicle



Before

After



Bed
Metal
Frame
Boxes

Optimum utilization of transport vehicle

Details of loading Method :

- ❑ Initially vehicle floor was thin & waviness generated due to pallet point Load. Hence we weld 3MM sheet @ bottom for easy sliding of pallets.
- ❑ Un-even unloading Platforms, We provided foldable plate to match level.
- ❑ To avoid use of Forklift @ Customer end. We provide Pallet truck (MHE) to reduce GHG Carbon emission @ customer end.
- ❑ We convert Plastic Bins to M.S. Pallets & Gunny bags to Poly Bags to cover no. of Varsity.

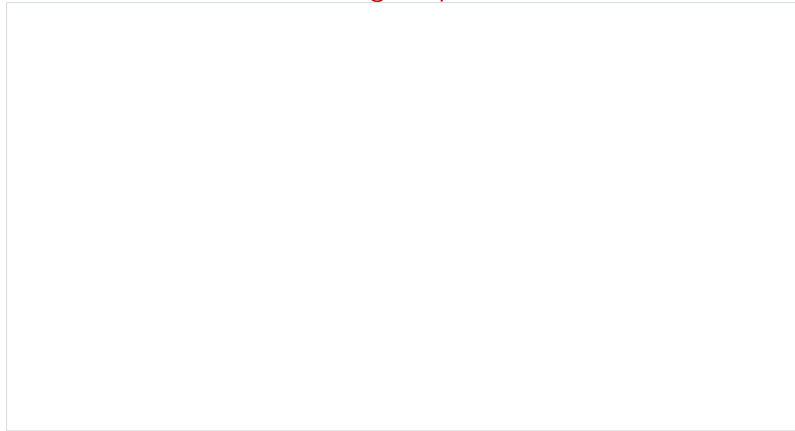


GHG Emission reduction Projects

Before

After

Employee Commute Usage of 1 bike for Single person



Employee Commute Usage of 1 bike for 2 & Bicycle usage

CO2 welding machine

Inverter based Argon welding machine



Roof Top Solar System

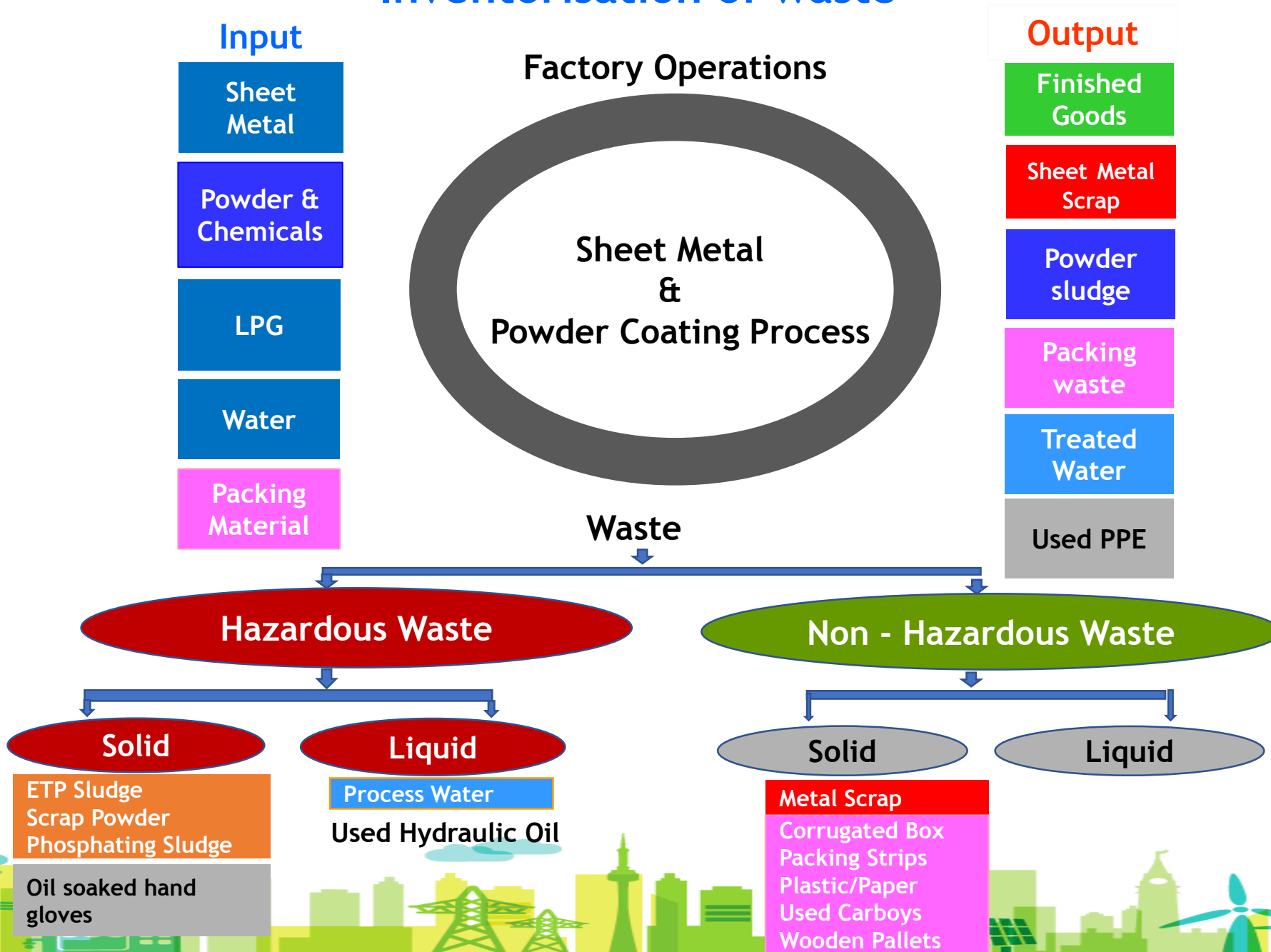
Usage of 67% Renewable Energy from 30 Kw
Grid Interactive PV Roof Top Solar System .

Sr. No.	Project	Energy Saving	Imple. Year	Benefit (Rs./ annum)	Investment	ROI Years
1	30KW Roof Top Solar System	36,000 kWh/Annum	2016-17	3,24,000	19,50,000	5.0
2	Bio gas System (Proposed)	250 kg LPG/Annum	2018-19	9,000	40,000	4.5

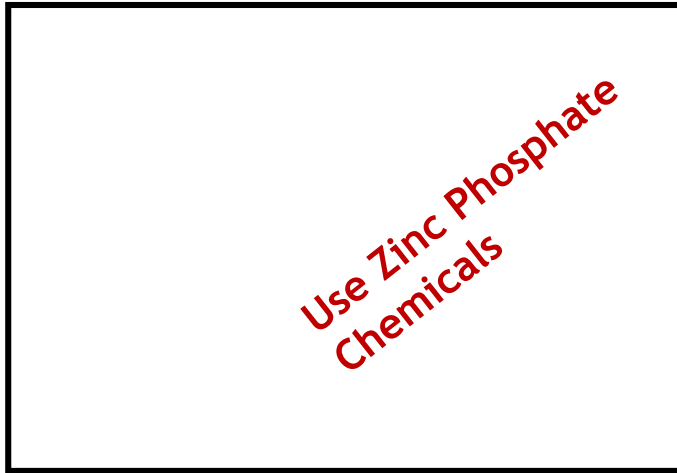




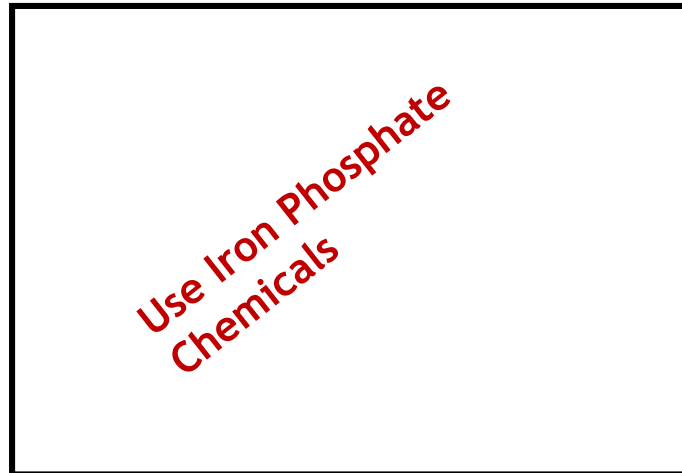
Inventorisation of waste



Before



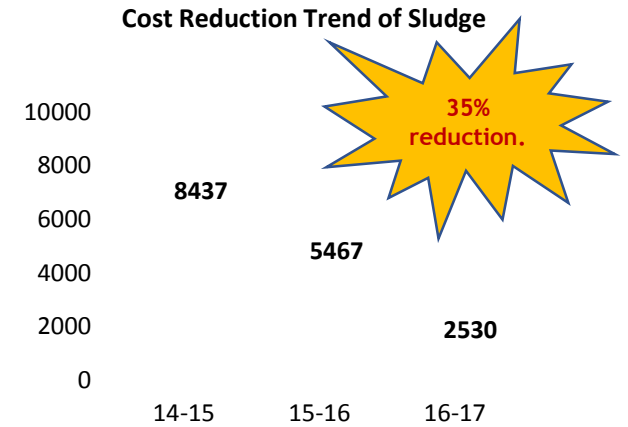
After



Use of Zinc based chemicals
Benefit : Rs. 2937/ annum saved.
FUTURE PLAN : Using Bacteria based chemicals hence % of sludge will 0,.

Use of Iron based chemicals

Result



Used end pieces



Standard Corrugated roll.

Benefit : @ Rs. 15750 / annum saved.

Horizontal Deployment : done at 6 products.

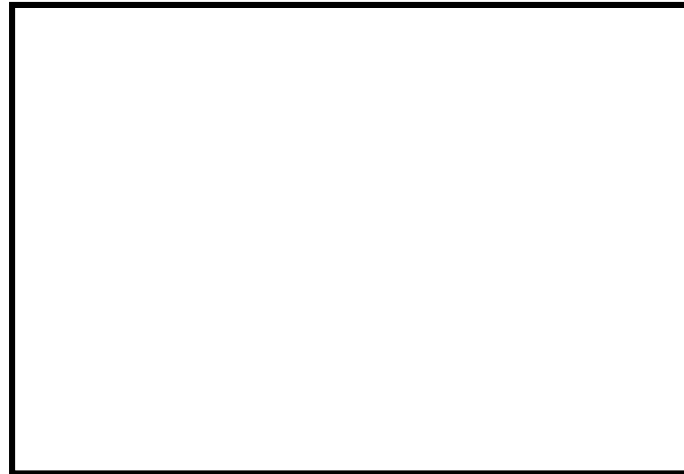
Corrugated Scrap end pieces of Required size.



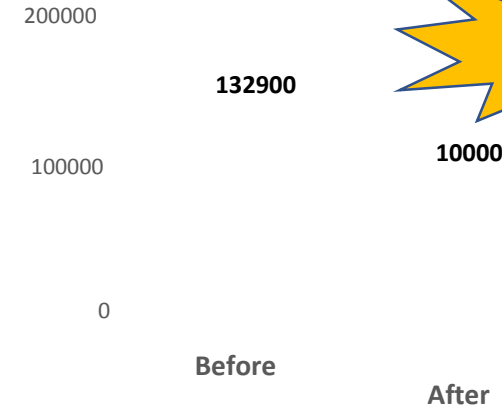
Before



After



Result



Corrugated Packing

Usage of recyclable PP Caps

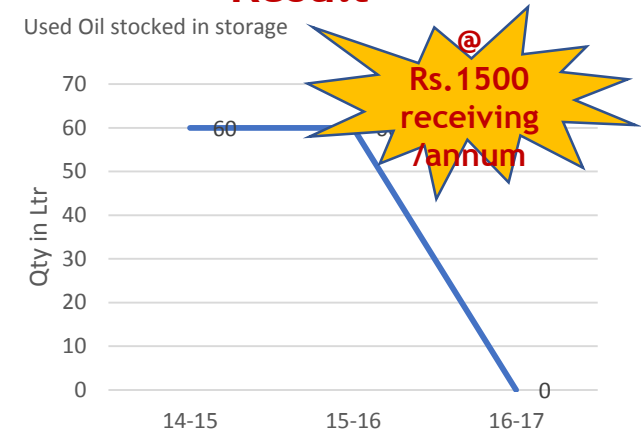
- Benefit :**
1. Corrugated Packing is totally eliminated with Usage of Recyclable PP Caps Annual (Consumption Rs-10,500/Annum)
 2. 2 Manpower Saved Rs-120000/Annum, Rejection due to Dent & Damage is totally eliminated,
 3. Usage of Gum Tape is eliminated (Consumption Rs-2,400/ Annum)



Before

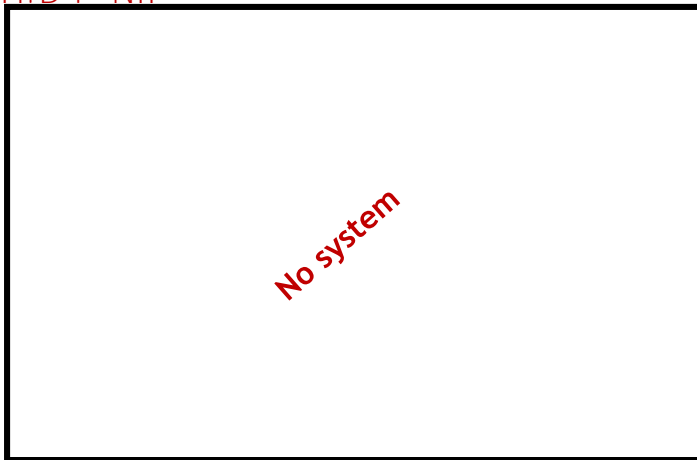
After

Result



Used Hydraulic oil.

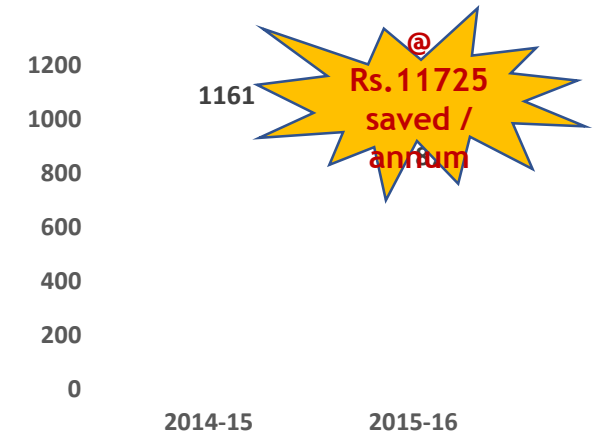
Benefit :- @ Rs. 3000 received in resale.
H.D :- Nil



Hydraulic oil Reclaimed & sold.

After

Nos



Issues of PPEs as and when required.

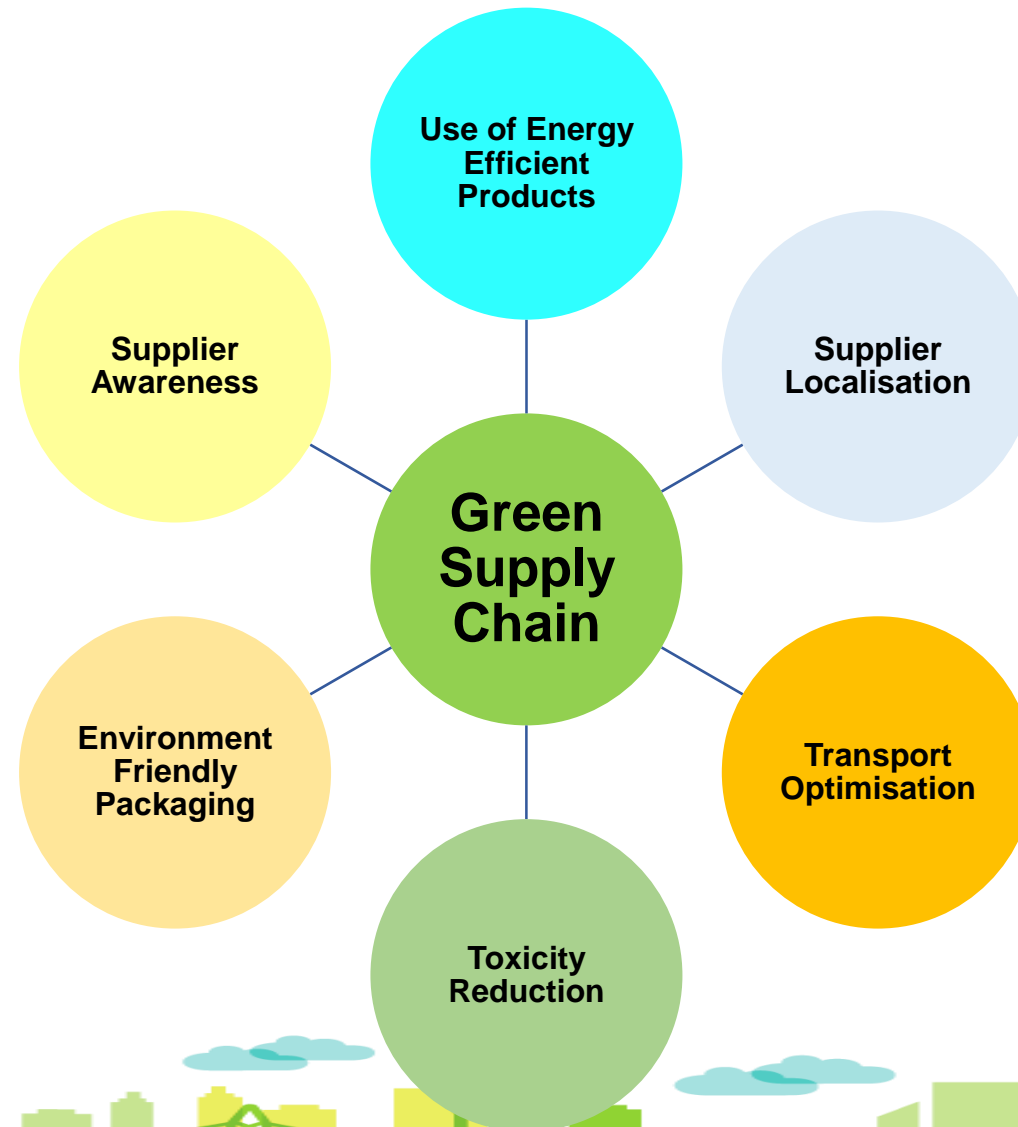
Benefit :- Rs. 11725 / annum saved.
Horizontally Deployment : Issue of other items with replacement.

Issue of new PPEs with replacement of old one.



7. GREEN SUPPLY CHAIN

Purchase Guidelines



Implementation of Green Purchase Guidelines

Use of Energy Efficient Products

Oil - injected Rotary Screw Compressors

Make - Atlas CopCo

Model - GA 15VSD +7 bar pack delivering 15 - 88.6 CFM

Hydraulic Press 75 TON

Model - SH - 75

Variable Speed Drive Air Compressor
Energy Efficient Electrical Motor.
Directly Drive.
No transmission loss.
Noise level 60 db to 63 db
Cooler fan operated
Air drier & Receiver

Energy efficient electric motor (Siemens make)
AC VFD (Drive for power consumption)
Hydraulic system with counter balance valve system.
Hand safety guard mounted on front side of machine.



Implementation of Green Purchase Guidelines

Use of Energy Efficient Products

MIG / MAG / FCAW Welding Inverter

3 Phase 415V, Duty Cycle : 60%

Press Brake

EHP SH/25

Transvector Nozzle Gun

30 to 40 % electricity saving.
Compare to transformer base welding m/c
Fine parameter control & adjustment.
Spatter & scale free.

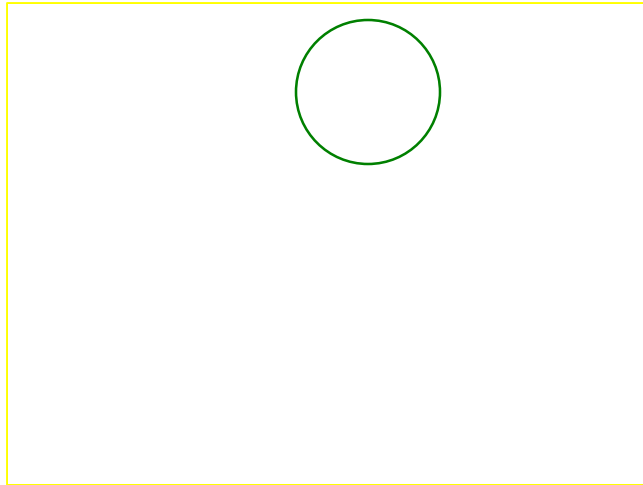
Accurate Positioning
Productive Bends
Low Power Consumption
Lower Noise Levels
Lesser Maintenance
Lower oil capacity

70% natural air usage.
Energy efficient
Low noise

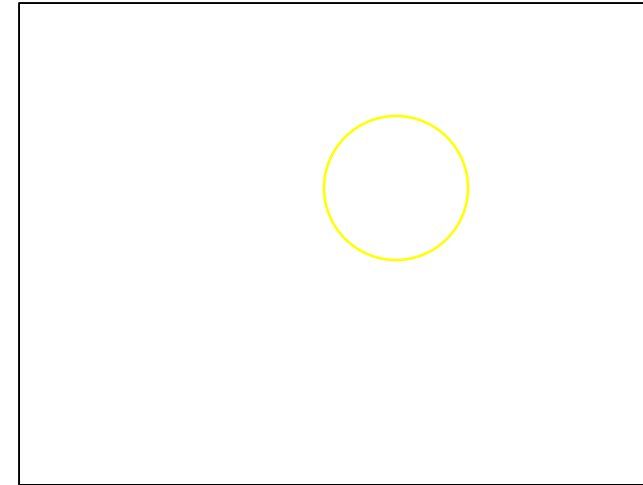


Implementation of Green Purchase Guidelines

Energy saving Initiatives



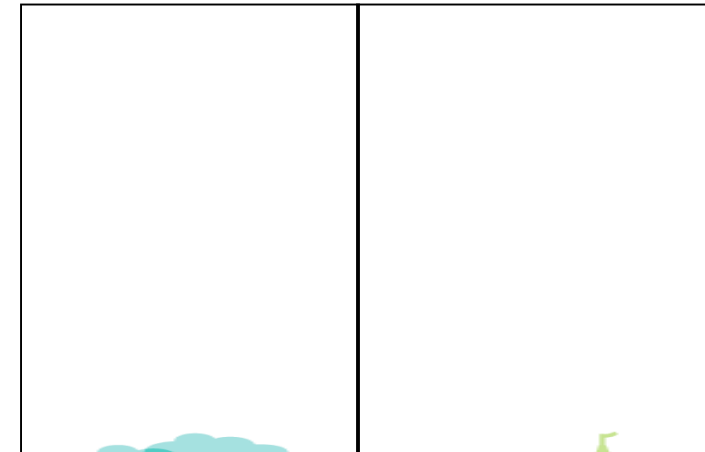
5% Energy saving by using CFL
Before



30% Energy saving by using LED Light
After



Procurement of standard size RM sheet

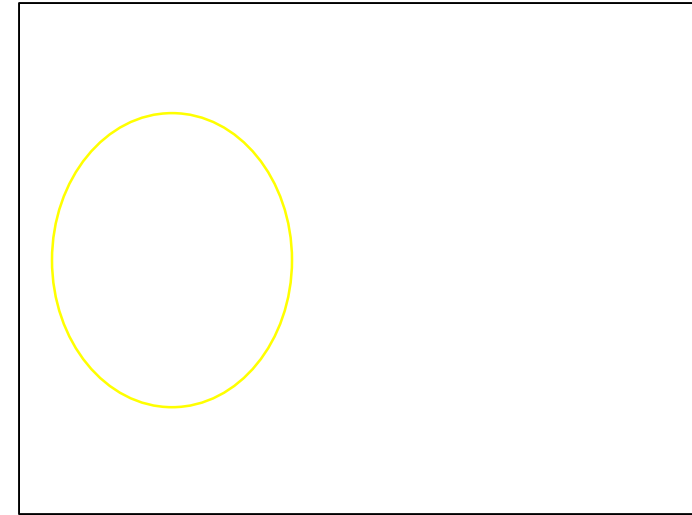
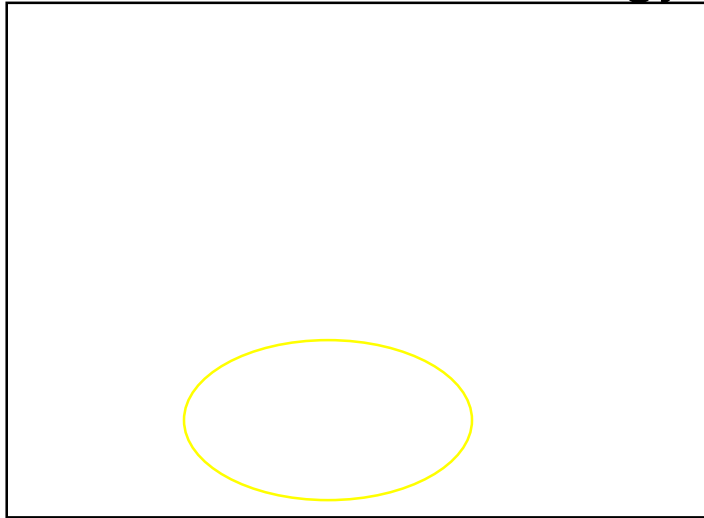


Procurement of Cut to length RM sheets
35% Energy Saving



Implementation of Green Purchase Guidelines

Energy saving Initiatives

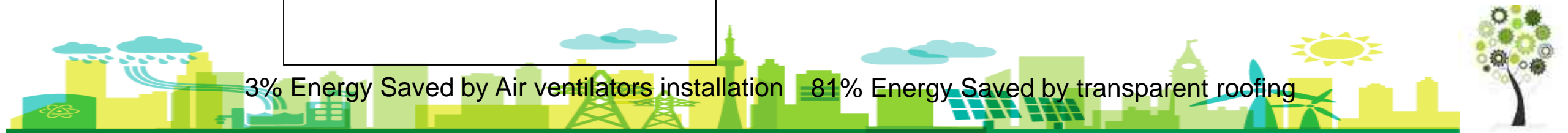


APFC panel for better power factor



3% Energy Saved by Air ventilators installation

81% Energy Saved by transparent roofing



Implementation of Green Purchase Guidelines

Use of Energy Efficient RM

Usage of CTL instead of sheet

Benefit Reduction in scrap by 21.66%

Usage of CT coil instead of sheet

Benefit Reduction in scrap by 10.47%

Photograph

Usage of Strips instead of sheet
Benefit Reduction in scrap by 33.10%



ERP Implementation

1. Elimination of stationary
2. Accuracy and speed of work
3. Daily performance analysis
4. Daily stock maintain
5. Inventory control significantly
6. Excise & VAT report generated automatically hence eliminate written tasks.
7. Aid for preparing balance sheet and P&L statement
8. Outsourcing material 4/5 A register online & eliminate written tasks
9. Easy for sales order tracking & schedule workout



Supply Chain Intensity Reduction

Sr · N o.	Category	No. Of Projects	Implementatio n Year	Benefit
1	Milk run model	2	2015	22 % reduction in transportation. GHG reduction.
2	Localization of suppliers	6	2014	1L km reduction in transportation. GHG reduction.
3	Reduction in packaging material in upstream	4	2014	27 % reduction in packaging material .
4	Transport optimization	1	2015	3900 km reduced in transportation. GHG reduction.
5	Toxicity Reduction	...	2014	Environment friendly products
6	Awareness creation in supply chain	...	2016	Trained supplier. Inventory cost reduced. DSA increased. Cost benefit.



Localisation of suppliers

Item	Supplier - Before	Present Supplier	Reduction in Transportation (Km/Year)
RM Steel Sheet	Sahibabad (UP) (1500 Km)	Khopoli (170 Km)	42560
RM Steel Coils	Sahibabad (UP) (1500 Km)	Pune (130 Km)	32880
Zink Plating	Satara (4 Km)	In house (0 km)	1160
Corrugated Box	Shahapur (210 Km)	Satara (3 Km)	13662
Corner fitment	Mumbai (265 km)	Satara (3 Km)	2096
Pin for side disc	Mumbai (265 km)	Satara (3 Km)	262
Steel Tubes	Bhiwandi (290 Km)	Pune (130 Km)	5280



Reduction in packaging material in upstream

Sr. No.	Project	Before	After	Benefit
1	Use of corrugated scrap for wall nut packing			Elimination of use of 2 ply corrugated sheet
2	3C packaging			Eliminated use of stretch film
3	components from single side instead of wrapping entire component			Reduction in bubble sheet
4	Reusable PP corrugated boxes & plastic bins			Elimination of corrugated boxes.



Transport Optimisation



Posco Maharashtra Steel Ltd, Talegoan.
Vehicle loading capacity increased from 9 MT to 16 MT.



Uttam Galva Steels Ltd , Khopoli.
Vehicle loading capacity increased -
For Sheets - from 14 MT to 20 MT &
For ERW tubes - from 6 MT to 8 MT



Toxicity Reduction

RoHS Certificate

All our processes & products are well within RoHS limits



Awareness creation in Supply Chain

GreenCo awareness Training Program for all vendors held at KEPL

GreenCo awareness Training Program held at vendors shop



Awareness creation in Supply Chain

Green Policy circulation among vendors

Ebenazeer Industries

Purushottam Enterprises

Gajanan Enterprises

Siddhi Enterprises



Efforts to create & maintain Biodiversity

Gardening Surrounding Factory



Efforts to create & maintain Biodiversity

Flora Surrounding Factory



World Environment Day Celebration

Women's Day

Navratri Celebration

Employee of the year 2014-15



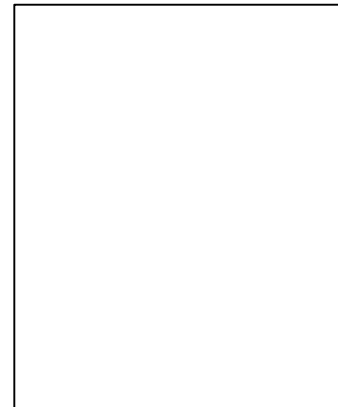
Lean Cluster Movement



Engineers Day



Cultural Programme



World No Tobacco Day

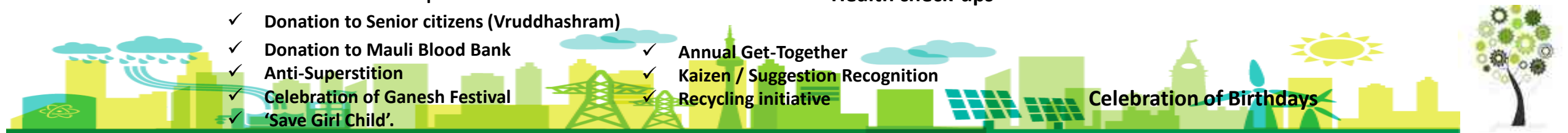
- ✓ Help to Anandban School
- ✓ Donation to Anti-Superstition ANIS Committee
- ✓ Donation to Senior citizens (Vrudhashram)
- ✓ Donation to Mauli Blood Bank
- ✓ Anti-Superstition
- ✓ Celebration of Ganesh Festival
- ✓ 'Save Girl Child'.

AIDS Awareness

Blood Donation Camp & Health check-ups

- ✓ Annual Get-Together
- ✓ Kaizen / Suggestion Recognition
- ✓ Recycling initiative

Celebration of Birthdays



Training on Waste Management System

Actual Work On Field With Instruction & Supervision

Celebration of World Environment Day on 5th Jun 2016 with cleaning

Third Party Waste Management Training Program

Brain Storming on Waste Management



Recognitions at various Conferences/Forums

KEPL team at **Green Initiative** Program **honoured by Ministry of Environment, Forests and Climate Change Mr. Prakash Javadekar** at Green Conclave, CII Pune 19th Dec 2015

Award for **Green Manufacturing** at **CII 8th National Cluster Summit 2015**

KEPL team with **Shri JN Godrej,**
President CII GBC, Hyderabad



KEPL received **Greenco Platinum Plaque** at
the hands of **Shri Nitin Desai** , Member
on Climate
Change @ CII **Greenco Summit 2016**
Hyderabad

SMB Star Icon Recognition 2016 for Sustained
Performance Excellence received at 24th CII National
Quality Summit, Bengaluru







Intangible Benefits

- More concerned ,more responsible towards mother nature , even while achieving higher growth with optimal use of resources and better Emission and Discharge Standards.
- Builds Competitiveness ,strengthen Bottom Line
- Preferred Vendor Partner status,
- Green corporate image,
- Enhance Credibility and provide increased ability to raise capital.
- Equip to meet future Environmental Regulations mitigate future Environmental Risks.
- Export Opportunities.



We Do Not Inherit the Earth from Our Ancestors,
We Borrow It from Our Children...

THANK YOU

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