"Green Supply Chain Journey" And CSR Presentation

M/s. Shree Ashtavinayak Glass Pvt. Ltd. Khandala

Mentor – Godrej Appliances – Team Shirwal





- About Shree Ashtavinayak Glass
- GAD Supplier Cluster Roadmap
- Green Initiatives
- Green Results
- Way forward

About Shree Ashtavinayak Glass





Shree Ashtavinayak Glass Pvt Ltd located just 70 Km from Pune in Khandala is a green-field glass processing plant created as a joint venture between the Royal Glass House & Mariegold Group of Industries. It's a culmination of long standing industrial experience of it's partnering firms. It started it's operation in 2009-10

About Shree Ashtavinayak Glass

SAG Secure Chare

Product Range

- ✤ e Temp (Toughened Glass)
- ✤ e Temp HS (Heat Strengthened for

Reflective & Low e Glass)

- Ceramic Fitted & Spandrel
- e Therm (Insulated Glass)
- Others (Clear / Tinted Float)

Glass, Mirror Glass, Patterned &

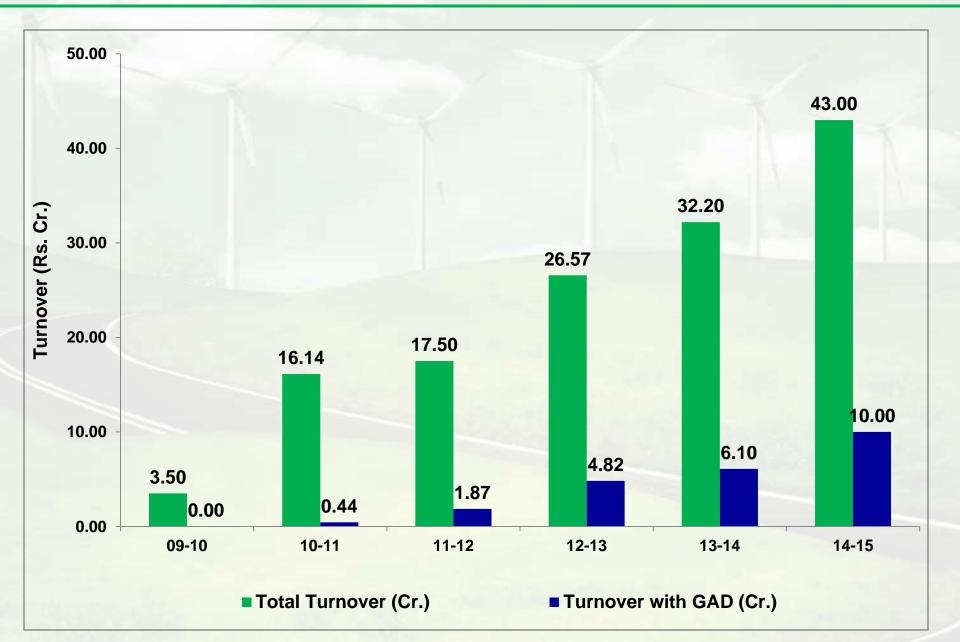
Featured Glass)

Our Valued Customers

- ✓ Godrej & Boyce Mfg. Co. Ltd. (Appliance Div.)
- ✓ Tata Ficosa
- ✓ Frankie Faber
- ✓ Schindler
- ✓ Tata Automotives Ltd

Business Score Card





Roadmap GAD Supplier Cluster



	ROADMAP FOR GODREJ SUPPL								LIER CLUSTER					DELIVERABLES				
SMED Cellular manufacturing Multi-tasking								PRODUCTIVITY IMPROVEMENT					Reduct throug Improv	ction in c ction in hput tim vement i product	ie in			
CTQ mapping Concept of 100% inspection Quality Alert boards 7 QC tools + QC story CP/ CPk studies Poka Yoke Calibration SOP creation							C	Reduction in rework (inprocess) Zero defects at customer end Measure cost of Poor Quality										
Mapping and monitoring efficiency of - Energy Water Waste Toxicity				e	GREE	N	>	Reduction in Energy consumption Reduction in Water consumption Reduction in all type of Waste RoHS compliant products and processes										
Step 0 to 2				MY MACHINE Breakdown reduction trend														
1S / 2S Red Tag campaign Fixed point photography Jogging track1S score worksheet Zero red tag items Before / after photos Boundary walls clear Department Safety S					items photos s clear	core (D	SS), Fre	equency	/ Sever	ity rate,	No. of	acciden	t free da	ays				
Time in Months :1234					5	6	7	8	9	10	11	12	13	14	15	-		

1S & 2S Improvements



Hospital Clean Inside









1S & 2S Improvements



Garden Green Outside









Green Initiatives - Energy





Transparent sheets for roofing at regular intervals



Induction Lamps



APFC Panel



Bio-Gas Plant

Green Initiative - Energy





Roof Sheet covered with solar panel

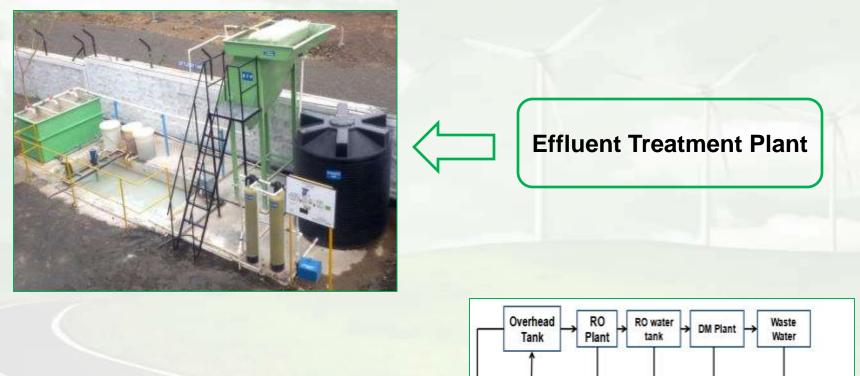
Green Initiatives - Energy



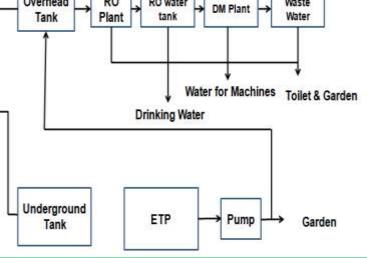
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SN	Initiative	Benefit
1	Transparent sheets for roofing at regular intervals for effective utilization of day light	Energy savings – 60000 Kwh / Year
2	Production planning to have continuous running of glass tempering oven	Energy Savings – 84000 Kwh / Year
3	Installation of APFC panel	PF > 0.99 Improved power quality which in tern improves machine life
4	Use of <i>Induction Lamps</i> in place of <i>Metal</i> <i>Clad Lamps</i> for illuminating shop floor & street	Energy Savings – 25200 Kwh / Year
5	Use of <i>LED lights</i> in place of <i>Tube Lights</i> & <i>CFL's</i> in office & utility area	Energy Savings – 8400 Kwh / Year
6	Installation of 225 Kva on roof top Solar project	Energy Savings – 280000 Units / Year
7	Installation of Bio-Gas plant	Savings – 24 LPG cylinders / Year

Green Initiatives - Water



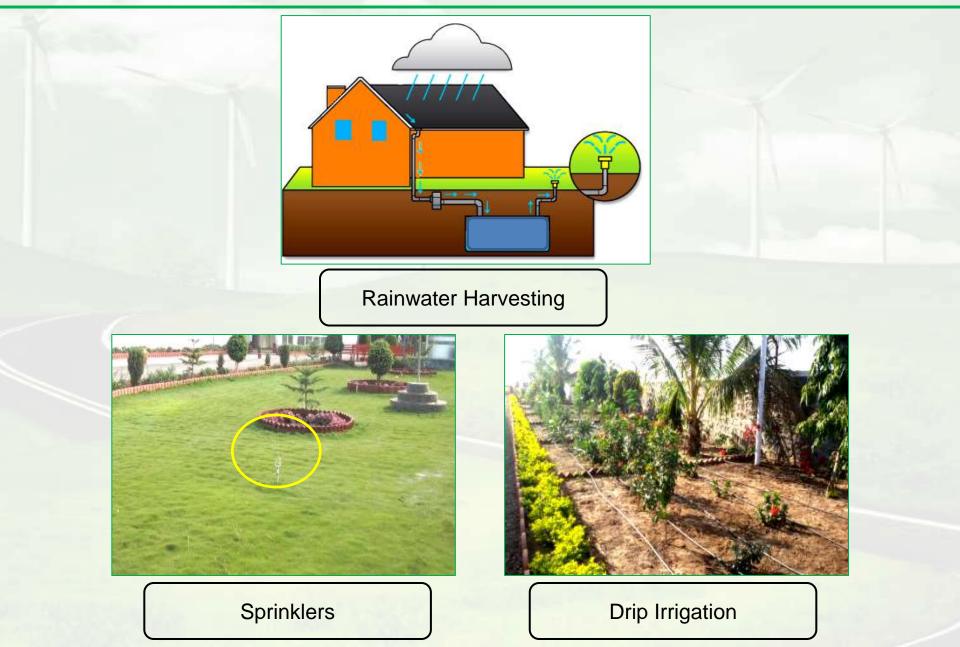


Schematic Diagram – Usage of waste waster from ETP



Green Initiatives - Water





Green Initiatives - Water



SN	Initiative	Benefit				
1	Installation of <i>ETP</i> to have recycling & reusage of water used for processing	Water Saving – 3600 KI / Year				
2	Reuse of water from ETP for toilets & garden	Water Saving – 240 KI / Year				
3	Drip irrigation & sprinklers for watering plants in garden	Water Saving – 120 KI / Year				
4	Rain Water Harvesting	Increase in ground water level				
5	Motion sensors for taps in toilet	Water Saving – 240 KI / Year				
6	Up-gradation of production facilities	Water Saving – 15 Kl / Year				

Green Initiatives - Waste





2D Software for optimization in glass cutting



Recycling brown paper for packing reflective glasses



Recycling wooden scrap for making Exports consignment



Vermicomposting / Decomposting

Green Initiatives – Waste





Green House from recyclable & waste material

Green Initiatives - Waste



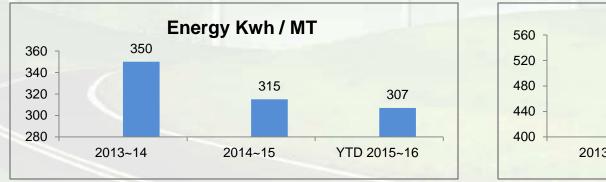
SN	Initiative	Benefit
1	Procurement of RM to suit best cutting layout	Reduction in waste – 216 Mt / Year
2	Use of 2D software for optimization in glass cutting	Reduction in waste – 180 Mt / Year
3	Recycling of wooden scrap for making boxes for export consignment	Reduction in wooden waste – 20 Mt / Year
4	Recycling of brown paper for packing Reflective Glasses	Reduction in brown paper waste – 1.8 Mt / Year
5	Preparation of organic fertilizer from garden waste & cuttings by " <i>De-composting /</i> <i>Vermicomposting</i> "	Generation of 3 Mt fertilizer / Year
6	Optimization in printing paper consumption	Reduction in paper waste – 0.6 Mt / Year
7	Construction of "Green House" from recyclable & waste material	Recycling of 50000 waste plastic bottles & 0.5 Mt steel

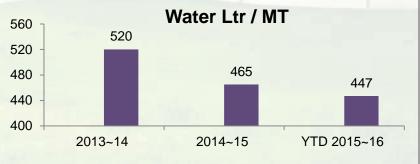
Green - Results



Mapping of Energy, Water & Waste

Parameter Per MT RM Processed	2013~14	2014~15	YTD 2015~16	% Reduction wrt 2013~14	
Power (in KWH)	350	315	302	14	
Water (in KLtr)	520	465	447	16	
Wastage (In Kg)	352	326	311	10	







1S & 2S Improvements



Journey towards Waste Management & Control







Recovered space used for vegetable plantation





Horizontal deployment



INSTALLATION OF BIO GAS PLANT IN AFMC - PUNE AND APANG SCHOOL, PUNE



Investments Vs ROI



SN	Initiative	Investment (In Lacs)	Annualized benefit (In Lacs)	ROI (Years)
1	Transparent sheets for roofing	0.63	2.40	0.25
2	APFC Panel	4.1	9.60	0.45
3	Induction Lamps – Shop floor & Street	9.72	3.25	3
4	LED lights – Office & Utility	0.35	0.60	0.65
5	Bio-Gas Plant	1.00	0.54	2
6	Solar Panels of 225 Kva	160	25	10
7	ETP	5.75	9.00	0.7
8	Drip Irrigation & Sprinkler System	0.25	0.25	1
9	Rain Water Harvesting	0.30	0.30	0.85
10	2D Software for optimization of RM waste	1.35	6.00	0.2
11	Vermicomposting	0.40	0.24	1.7
12	Green House	0.50	1.20	0.55



<u>SHRI ASHTVINAYAK GLASS PVT.</u> <u>LTD.KHANDALA</u> <u>&</u> GRAMSWARAJYA SAMAJIK SEVA SANSTHA KHANDALA

On CSR Activity



Initiatives Taken Till Date :

- Operating 2 Schools , one for Specially Abled Kids (Strength 45 Students) and second for Tribal students (Strength 25 Kids).
- Started Model village Program at Salav Village completion due in next six months.
- Horizontal Deployment on 15 other villages in the time frame of 3 years.
- Model Village based on Economic , Social and Environmental Impact which will finally result in selfsufficient in terms of basic needs.
- Sponsor ship to 5 students yearly

Program details :

SAG Secure Glaze

- . Household survey of all selected villages.
- . Villages development plan
- . Key activity
- . Once in week bal sanskar class & educational lecture for undeveloped children's at z.p. school.
- . Once in week girls & adults health training program .Personality & skill development program for all age group for 15 days.
- . Day care check up program for older peoples.
- . Career & competitive exam. guidance training program for 7 days. . One day employment camp. for youth.
- . Tree plantation, bio gas information, smokeless chulla, toilet construction & use awareness & water conservation programs for villages



































Work Done in Nearby Villages Till Now

- School Toilet 5
- Village Toilet 10
- Village Library 1
- Yuth mandal Gym 1

Model Village Salav

- Biogas and Solar Lamp
- Women's Training & Self Employment (Manufacturing Low cost Sanitary Pads)
- Water harvesting Project
- Animal
- Career Guidance & Competitive exam center





Small groups biogas in Village Salav, Khandala



 Toilet biogas in Village Salav, Khandala



Reward & Recognition







. Installation of solar panels every Year

. Calculate & optimize Carbon Emissions – project ongoing with

CII – GBC emissions, data collected and mitigation plan given.

. Create one Model Village in next 6 months and then Horizontally Deploy in 15 villages where survey has been done in regards of Economic , Socio and Environmental aspects in nearby areas

. Green Co certification .

. 200000 Tree plantation in The nearby villages in next 3 Years



Thank You....