

## RUNNING ECONOMICS FOR WOOD GASIFIER

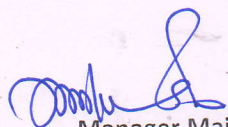
Sl.No.	Description	UOM	Values
<b>A)</b>	<b>Savings by implementing Biomass Gassfier</b>		
1	Consumption by HSD Burner	Ltrs/Hr.	50
2	Hours of operation per Day	Hrs/Day	8
3	Consumption of HSD per Day	Ltrs/Day	400
4	HSD consumption per Month	Ltrs./Month	10000
5	Cost of HSD	Rs./Ltr	62
6	Monthly cost of HSD	Rs./month	620000
7	Wood chips Consumption by Gasifier	Kgs/Hr.	170
8	Wood chips Consumption per Day	Kgs/Day	1360
9	Cost of Wood chips	Rs./Kg.	7
10	Wood chips cost per Month	Rs./ Month.	238000
11	Gross Savings by Gasifier	Rs./ Month.	382000
12	Saving per ton	Rs/MT	238.75

### B) Savings during trial period

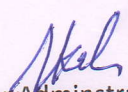
Sl.No.	Description	UOM	Values
1	Output per hour	MT	8
2	Output per day	MT	32
3	Output during trial period	MT	1120
4	Savings during trial period	Rs.	267400

### C) Expected Saving during full fledged operations ( Based on trial Period operations)

Sl.No.	Description	UOM	Values
1	Output per hour	MT	8
2	Output per day	MT	64
3	No of days operated during trial period	Days	25
4	Output	MT / Month	1600
5	Expected Saving during full fledged operations	Rs./Month	382000

  
Manager Maintenance

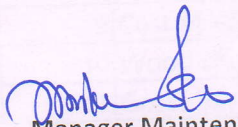


  
Manager Administration

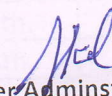


### The following are the benefits achieved

- Reduced the total amount of fuel required.
- Biomass (woodchips) being cheaper than Diesel saved money
- It reduces the GHG emissions and pollution because the combustion will be complete.
- Further the net emission would be zero for sustainable biomass use.
- This project is also applicable for getting the carbon credit benefits.
- Implementation of the selected energy conservation measures results in reduction in CO2 emissions.
- Elimination of Diesel consumption would made a cleaner working environment.



Manager Maintenance

  
Manager Administration

Part C) Expected Saving during full fledged operations  
(Based on trial Period Sept/Oct/2013)

Sl.No.	Description	Unit	Value
1	Output per hour	MT	
2	Output per day	MT	
3	Time of days operated during trial period	Days	
4	Output	MT / Month	
5	Expected Saving during full fledged operations	Rs./Month	550000

  
Manager Maintenance  
Manager Administration