

Apa Idemu dan Ini Ideku...

Ecofriendly Schools PVC Compost Makerand Recycle Corner

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Waste Terminal in Indonesia





Background

Waste Management



Waste Terminal

Became dure site

Dirty

Disgrating

And Bud Smell

No Awareness within society No Waste Categorization The rotten organic Waste

Environmental problem is not a personal problem alone.





PVC Compost Maker Program

Segregation Trash Bin

Compost Making

Recycling Corner

Exhibition





Scheme Work

Ecofriendly School

School Permission

Establish new students organization or extracurricular

Pilot Project

Start with student Board (20 students) + Some students interesting with

Segregation

Compost

Recycling

Pilot project community act as the company
Students; Teacher and staff act as community



Used Paper Cardboard Used bottle



Segregation Trash Bin

Organic Waste

Compost material

Inorganic Waste

Recycle

Reuse









Compost Making

Organic

Inorganic



Target Location





Involving the Community

Applied in the School with Students from Science Club



Documentation and Compost

Other Students

Teachers and Staff

Parents



Exhibition and Seminar



Exhibition

Students Teachers and Staff Parents









Seminar

Students Teachers Parents









The Benefits

- Students
 - # Reward
 - # Score

First motivation purpose only

- Teacher, Staff and Parents
 - # A good and healthy environment in the city
 - # No need to think, where they should throw their organic waste that easily rotten
 - # Will get a compost or fertile soil because of the composting

Techno Economic Analysis

- 0.001 m³ of organic waste from each person every day
- PVC compost maker capacity

Diameter (inch)	Height (m)	Capacity (m³)	Efficiency
3	1	0.005	5 x
4	1	0.008	8 x
5	1	0.013	13 x
6	1	0.018	18 x
7	1	0.025	25 x

Techno economic analysis

The cost to make PVC Compost Maker

Diameter (inch)	Height (m)	PVC (Rp)	PVC Cap (Rp)	Total Price (Rp)/unit
3	1	20.000	5.000	25.000
4	1	25.000	8.000	32.000
5	1	28.000	11.000	39.000
6	1	30.000	13.000	43.000
7	1	35.000	15.000	50.000

PVC compost maker lifetime >10 year



Time Schedule

Aktivitas	Schedule											
	1	2	3	4	5	6	7	8	9	10	11	12
Persiapan action plan (Ijin dari kepala sekolah dan yayasan)*	X	X										
Persiapan kelompok pilot project dalam bentuk ekskul atau organisasi sekolah			X									
Pengumuman kegiatan melalui radio sekolah dan pengumuman dipapan pengumuman sekolah. Persiapan pengelompokan sampah				X	X							
Pembuatan kompos dari sampah organik (PVC Compost maker)					X	X	X	Χ	X	X	X	X
Pembuatan recycle corner					Χ	Χ	Χ	Χ	X	X	X	Χ
Exhibition (Melibatkan siswa SD, SMP, SMA, Orang tua, Staff dan masyarakt sekitar)								X				X
Melibatkan seluruh siswa, guru, orang tua, staff, dan masyarakat dalam ikut serta kegiatan recycle dan pembuatan kompos					X	X	X	X	X	X	X	X
Monitoring (monthly monitoring)					Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ