



Green Belt to Reduce the Brunt of Tsunami and Large Waves

Created by :

FAJRI ZUWITO
MEIDJI MAULANA

LBD 4 Action Plan

BACKGROUND




- ▶ Geography of Pariaman city.



- ▶ Green belt can reduce the large waves

GREEN BELT

- ▶ **Green belt** is a row of trees (mangrove and cassuarina) which serves to hold / breaking waves on the shoreline.
 - ▶ Green belt also serves as Waves Abrasion Natural Fortress Gate and is comfortable to be at the beach.
- 

About MANGROVES

- ▶ Mangroves are also called mangrove forest is a forest that grows on brackish water marshes located on the shoreline and is influenced by tidal sea water . This forest is growing , especially in places where there is siltation and accumulation of organic matter.



About Cassuarina

- ▶ cassuraina are cover crops that can grow anywhere and usually these plants for the manufacture of bonsay for ornamental plants. characteristics of evergreen trees are clustered leaves and branches which are many and stem winding is made easier for plants bonsay.



OBJECTIVE


- ▶ to withstand the brunt of the tsunami waves, so as to save people from the dangers of tsunamis pariaman.




- ▶ Could be a convenient place and can be used as attractions, and to reduce air pollution and cope with coastal erosion.



IMPLEMENTATION STRATEGY

- ▶ Provide education / workshops to community and volunteer
 - ▶ Breeding seeds with communities, government and volunteer
 - ▶ Determine where to plant mangrove & cauarina trees
 - ▶ Planting the seeds with the community, government and volunteers.
 - ▶ determine the location to planting seeds.
- 

- ▶ planting seedlings, divided into 3 stages. stage 1 cassuarina planting trees along 25 meters. stage 2, planted a 25 meter causuarina the remaining. and the last replant mangrove forests damaged.
 - ▶ controlling mangrove growth and causuarina planted.
 - ▶ evaluation
 - ▶ monitoring and reporting.
- 

BENEFICIARIES

- ▶ 100 people on the shoreline will know and understand the impacts and how to mitigate these impacts.




AIM

- ▶ Make this project to be one of the government's agenda to cope with disaster



TIME LINE (2013–2014)

- ▶ provide education
(21 August 2013– 1 Sept 2013)
 - ▶ review the planting site
(5 Sept 2013– 10 Sept 2013)
 - ▶ practice of planting
(15 Sept 2013– 30 Sept 2013)
 - ▶ control and treatment
(1 Oct 2013– 13 February 2014)
 - ▶ seed multiplication
(5 Mar 2014– 13 Sept 2014)
 - ▶ evaluation
- 

BUDGET NEEDED


▶ 300 Seed mangrove	: 300 USD	
▶ 700 seed casuarina	: 700 USD	
▶ Treatment	: 550 USD	
▶ Fence plants	: 120 USD	
▶ <u>Planting together</u>	<u>: 200 USD</u>	+
Total	:1870 USD	

MONITORING

- ▶ 100 people from the community and volunteers understand the importance of green belt to cope with tsunami
- ▶ The existence of a green belt along 4 km of shoreline.



REPORTING

- ▶ Increasing public understanding and volunteers on how to reduce the impact of the tsunami and the results of questionnaires.
 - ▶ Report on the development of mangrove and casuarina tree growth.
- 



Thanks

CONTACT US :

Fajri.zuwito@gmail.com
meidjimaulana@yahoo.com