

16<sup>th</sup>



*Ministerial Level Meeting*

# PHILIPPINE COUNTRY REPORT



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# Global Concerns

- Climate change and its impact on food security, water sufficiency, ecological and environmental stability, etc.
- Equitable sharing of Mother Earth's wealth (inclusive growth)
- Terrorism

# Nuclear Technology against Climate Change

- Plant growth promoter (PGP) from radiation-modified carrageenan
  - Increases yield of rice by an average of 30%
  - Makes rice stalks more resistant to lodging
  - Makes rice plant more resistant to tungro virus



3 bags of fertilizer/ha  
+  
PGP



6 bags of fertilizer/ha  
+  
PGP



9 bags fertilizer  
(Farmer's Practice)





Standing rice in  
PGP carrageenan-treated field  
(left)

vs. Lodged rice in Farmer's Practice in  
Bulacan Province, Luzon Island  
(right)

Pulilan, Bulacan after Typhoon "Lando"



Carrageenan field demonstration trial at UPLB-CES during early vegetative stage

**Tungro infected fields**

**Activity 3 Field**



No tungro infection have been observed in the Carrageenan set-up (Activity 3) despite the presence of tungro disease in nearby farms at UPLB-CES.



PNRI Electron Beam Facility  
for PGP production



# PNRI Radiological Mobile Expert Support Team



Deployment at APEC AELM  
12–20 November 2015



# 3<sup>rd</sup> Philippine Nuclear Congress



7-9 December 2015, Manila, Philippines



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Maraming salamat!



Thank you!