

## Current Activities of SWA Research in 2010

(R = Research, SF = Semi-Field Test, F = Field Test and C = Commercialization)

Country	Materials	2009	2010	2011 Check the results	2012 Fill in the plan
Bangladesh	Acrylamide / HEMA Acrylamide / K-Carrageen	R	R (Acrylamide / Carboxymethyl Cellulose)	R (Acrylamide / CMC) SF	R (Acrylic acid / CMC ) SF (Acrylic acid / CMC)
China			R (Sodium Acrylate / konjac starch)	R (Inorganic / cellulose based SWA) SF	R (Clay / CMC based SWA) or other materials with low cost
Indonesia	PEO / Alginate Acrylamide – Acrylic Acid	R	R (Acrylic acid – cassava starch SWA)	R (Acrylic acid – cassava starch SWA)	R (Acrylic acid casava starch SWA)
Japan	CM-Cellulose CM-Starch	R	R (CM-Cellulose, CM-Starch blend), SF (Tomato, CM-Cellulose SWA)	R (CM-Cellulose, CM-Starch blend), SF (Tomato, CM-Cellulose SWA)	R (CM-Cellulose, CM-Starch blend), SF (Tomato, CM-Cellulose SWA)
Malaysia				R (Sago waste / oil palm waste) Sandy soil, SF	R (SWA for Chili plant) R (SWA for POME)
Philippines	CM-Karrageenan	R (Development / Characterization)	R (Water retention in soil / sand; initial pot test)	R (Carboxymethylation of seaweed )	R (Pot test in sandy loam soil using corn)

Thailand	Acrylic acid grafted cassava starch	R & SF Water retention in dry sand & germination percentage	SF	F & Pre-Feasibility Study	SF
Vietnam	Acrylic acid grafted starch Coconut coir dust and Bentonite	R & C Tea, coffee, pepper, rubber, cassava, dragon fruit, orchid	R (Na-Acrylate-grafted-coconut coir powder)	F & C (Coffee, mushroom)	Complete 2 products - F&C (Coffee, tea and sugar cane) - Preparation of new SWA from rice husk - Pilot test of SWA from Bentonite for flood bags
Kazakhstan					- Research of application of technology - Market survey - Choosing raw materials
Mongolia					Wheat shell Potato ? Bentonite ?