

## INSTITUTE FOR SOLID WASTE RESEARCH & ECOLOGICAL BALANCE



January 23, 2006

Dear Hon'ble Prime Minister, Dr. Manmohan Singhji,

Let us first congratulate you and your party colleagues for the success of the 82<sup>nd</sup> Plenary.

We have intensely gone through various resolutions of your Plenary and discussions thereon. The economic resolution moved by Mr. Veerappa Moily caught our attention because it addresses one of the causes for which we have been working over the last one and half decade. It is employment generation in cottage and small scale sector. The focus paid by many speakers that SSI sector is equally important in the agenda of Congress Party as much as high tech. IT, draws a lot of significance. Now let us come to the subject straight away.

We are the NGO and researchers for technologies of Sustainable Development. FaL-G technology is our invention for the production of fly ash bricks, blocks and structural concrete, and acknowledged as the breakthrough in technological scenario. The maneuver that we did in chemistry brought down the investment from Rs. 5.00 crores to Rs. 5.00 lakhs for the same output, thus making the practice accessible to small-scale entrepreneurs. The result is the proliferation of over 2000 tiny and small scale units throughout the country over the last one and half decade, providing employment to over 25,000 persons with handsome earnings. But this is not the culmination of this technology.

Upon knowing about this technology in 1996, the then Prime Minister, Late PV Narasimha Rao had ordered for a High Power Committee under the Chairmanship of then CMD of HUDCO, Mr. V Suresh, in order to explore the ways and means to tap the potential of this technology. By the time the report was submitted to the Government in 1997, elections were declared and the report has gone into oblivion.

In view of your party's commitment for employment generation, it is time to tap the potential of technologies such as FaL-G to the benefit of the nation at large and employment generation in particular, and declare them as National Technologies, bestowing best of administrative support.

### **Status of FaL-G Technology:**

- ❑ More than 2000 plants are working right from extreme north up to down south.
- ❑ Provided yearlong employment to over 25,000 artisans, where more than 65% are from rural areas.
- ❑ Contributing to the economy with over Rs. 6000 millions of turnover, notwithstanding indirect turnover on services, emoluments, power etc.,

- Signed with World Bank offering over 800,000 tons of carbon credits worth of over four million US dollars, just based on the performance of 200 plants. Similar MOU is signed with Japan Carbon Finance (JCF) Ltd., and one more is in the offing with KFW, Germany.

### What is great about FaL-G?

FaL-G is one of the rare technologies to serve all the indicators of Sustainable Development such as:

<b>Sustainable Development Indicators</b>	<b>Redeeming features and tangible results in the field</b>
Conservation of Natural Resources	Saves precious topsoil otherwise used for clay bricks.
Conservation of thermal energy and fossil fuels.	Saves coal as no sintering is involved as practiced for clay bricks.
Environment friendly	Used the Industrial byproducts such as fly ash, lime and chemical gypsum, avoiding resultant pollution.
Employment generation	Provides yearlong employment, unlike clay bricks where the production activity is seasonal (November to May), with more scope in rural areas.
Appropriate and eco-friendly technology	Renders more durable products for housing and infrastructure applications with longer service life, conserving mineral and fiscal resources to the Nation.

### What is the future Scope for FaL-G Technology?

- Based on the availability of fly ash throughout the country, there is a scope to promote over 50,000 FaL-G units, the production out of which replaces only 30-40% of the clay brick market.
- At such level, the potential for employment generation is for over 12.5 lakhs artisans.
- Development of over 50,000 technocrats and unemployed youth as Entrepreneurs is the added potential.
- Conservation of fertile topsoil would be over 350 million tons every year, preventing the annual denudation of over 87,000 hectares. This has a lot of linkage to the welfare of farm sector.

- Protects environment and minimizes the global warming by abating the emission over 35 million tons of CO<sub>2</sub>.

After going through all these aspects, we are confident that you would realize the justice my demand for declaring FaL-G as National Technology, so that the technology gets support from Government of India for the accomplishment of its targets. We have certain action plan to consolidate the pace of proliferation and employment generation in this technology sector. We may be referred to suitable administrative wing in the Government for necessary interaction.

Assuring the best of our services in the interest of the Nation and Mankind,  
Sincerely yours,

**Dr N Bhanumathidas**      **N Kalidas**  
Director General          Director  
Institute for Solid Waste Research & Ecological Balance (INSWAREB) &

President:  
Fly Ash Building Manufacturers' Association (FABMAS)

Copy to:

Dr APJ Abdul Kalam  
President of India.

For kind information.

Smt Sonia Gandhi  
President: AICC

Dr YS Rajasekhara Reddy  
Chief Minister, Govt. of AP

Chief Ministers of other State Governments and Members of Parliament

For kind information and necessary follow up.