



Institute for Solid Waste Research & Ecological Balance (INSWAREB)

The Unique Techno-Scientific NGO in India.

July 02, 2016

Dear Aadaraneey Pradhan Mantriji,

We appreciate our government for earnestly following up the Solar Mission activities for its contribution to Environment and Ecology. We stress the need to encourage everyone to become part of this solar mission. We are already a part of it by installing 5 kWp on our roof top.

At the same time, I solicit your attention to other activities of total 'Make in India' which are contributing in multi-fold to the same cause of energy conservation and emission abatement.

For example, the contribution to environment and fuel conservation by 175 GW of solar power, as targeted by you (to be achieved by 2022) through a declaration at COP 21, is being achieved already by 220 FaL-G (fly ash) brick plants. We have today over 18,000 plants (with 81 times of impact) already and aiming for 100,000 plants. Please look at the below table for more details.

Equation: 175 GW Solar Power Plant = 220 FaL-G brick plants (each 3 million bricks/annum)			
Items	Units conserved per year	Out of 175 GW Solar power output/annum	Out of 220 FaL-G brick plants producing 660 mn bricks/year
Investment: For 43.75 GW @ Rs. 800 mn /GW	Rs. Billion	35	0.44
Turnover (Economic spin off) @ Rs. 8.00/unit as realization @ Rs. 5.00/brick national average	Rs. Billions	1.41	3.30
Investment to realization ratio		25:1	0.13:1
Land requirement	hectares	175,000	88
Conservation of soil @ 3.5 kg/brick	tons	nil	23,10,000
Conservation of coal @ 625 kg/MW @240t/million	tons	109,375	158,400
CO2 abatement @ 0.9 t/MW @ 240 t/million (after leakage)	tons	157,500	158,400



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These plants fall in micro and small scale sector and thus contributing for extensive employment. We aim to impart training to clay brick manufacturers so that clay bricks would be phased out in natural course and fly ash bricks would replace clay brick market without coercion. For this we have drawn a National Action Plan.

May we seek your kind attention to this reality and solicit your support to our National Action Plan in promoting fly ash brick. Once our action plan is implemented, it will deliver indices of above table on conservation and abatement by 454 times. Please support us. Give us an opportunity to present what we mean.

With warm regards,

Sincerely yours,

Dr N Bhanumathidas N Kalidas
Director General Director
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(electronic message; hence no signature)