

Talks with Naga Rebel Leaders

5183. SHRI RUMANDLA RAMACHANDRAIAH: Will the Minister of HOME AFFAIRS be pleased to state:

- (a) whether the Prime Minister has met Naga rebel leaders during his visit to Japan;
- (b) if so, what were the main talks held;
- (c) whether they have agreed to continue to have talks in Delhi; and
- (d) if so, by what time this Naga rebel leaders are coming to India for having further talks?

THE MINISTER OF STATE IN THE MINISTRY OF HOME AFFAIRS (SHRI I. D. SWAMI): (a) to (d) Mr. Isak Swu and Mr. Th. Muivah of the NSCN(IM) had called on the Prime Minister in Osaka, during PM's visit to Japan, in December, 2001. The Prime Minister gave them a patient hearing and assured them that the peace process would continue.

Producing Energy from Garbage

5184. SHRI THANGA TAMIL SELVAN: Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

- (a) whether any research has been conducted to produce electricity from garbage;
- (b) if so, details thereof;
- (c) whether any amount has been allowed for such projects;
- (d) if so, details thereof; and
- (e) if not, the reasons therefor?

THE MINISTER OF STATE IN THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN): (a) Research has been carried out for removal of hydrogen sulfide from biogas for making the biogas produced from wastes, including garbage, suitable for generation of electricity.

- (b) Details are given in the enclosed statement.

(c) to (e) Allocation of an amount of Rs. 1400 crore has been made for projects for recovery of energy from Urban Wastes such as garbage and sewage for the year 2002-03. Further, allocation of an amount of Rs. 125.00 crore has been proposed for the 10th Five Year Plan for programme for recovery of energy from Urban and Industrial Wastes.

Statement**Details of Research carried out for removal of Hydrogen Sulphide from Biogas for making the biogas produced from wastes, including garbage, suitable for Generation of Electricity**

S. No.	Name of Research Project	Name of the Research Institution	Objective	Total Cost (Rs. in lakh)	Govt.'s Support (Rs. in lakh)	Outcome
1.	Development of H_2S scrubbing system	Indian Institute of Science, Bangalore	Development of laboratory scale model, prototype model and field trials of chemicals based H_2S scrubbing system.	45.89	45.89	The system has been developed successfully on pilot scale during 1998. The technology developed has also been employed at full scale demonstration sub-project at Ugar Sugar Works, Belgaum.
2.	Microbial desulphurization of biogas and recovery of elemental sulphur on pilot scale	National Environmental Engineering Research Institute (NEERI), Nagpur.	To develop a system for the minimization of H_2S from biogas so as to utilize biogas for electricity generation.	34.88	10.80	The system has been developed successfully and demonstrated on pilot scale at M/s. Vam Organic Chemicals Ltd., Moradabad, U.P. during the year 2001.