

MEMORANDUM OF UNDERSTANDING
BETWEEN
THE MINISTRY OF COAL OF THE REPUBLIC OF INDIA
AND
THE DEPARTMENT OF ENERGY OF THE UNITED STATES OF AMERICA
CONCERNING
ENERGY CONSULTATIONS AND INFORMATION EXCHANGE

The Ministry of Coal of the Republic of India and the Department of Energy of the United States of America (hereinafter the "Participants"), desirous of conducting bilateral, as well as multilateral, energy consultations and information exchange, have reached the following understandings:

Article 1

Within the framework of common interest and mutual benefit of both Participants' countries, the Participants have agreed to establish a sub-ministerial working group on energy (the "Group") to conduct energy consultations for the purpose of enhancing the understanding of energy issues and promoting the exchange of information on energy policies, programs and technologies by consultations, with special emphasis on coal production and utilization in the power generating industry.

Article 2

The objective of the Group includes consultations:

- A) To discuss current and prospective energy developments in both countries as well as the potential impact of regional energy issues;
- B) To facilitate an exchange of information and assessments on energy demand and supply forecasts for the Participants' two countries;
- C) To exchange views on energy and related environmental policies and to discuss programs of both Participants' countries relating to the exploration, development, management, and environmental concern of major energy resources, such as coal, and to the efficient and environmentally responsible transport and use of energy.

Article 3

The areas of consultation and information exchange in the field of fossil energy and electric power generation under this Memorandum of Understanding may include:

- A) Coal science with emphasis on production, combustion, coal structure, and related chemical and thermophysical properties;
- B) Process modeling for advanced fossil-related technology;
- C) Impact on boilers by the use of variable ash-content coal, including high ash-content;
- D) Coal cleaning, grinding, and preparation for utilization;
- E) Studies of fuel combustion products, including cleanup and environmental effects;
- F) Other topics as may be mutually agreed by the Participants.

Article 4

Each Participant shall designate a coordinator for overall management of activities under this Memorandum of Understanding. The coordinators will, by correspondence, consult with each other and define the cooperative activities and other related matters. When necessary, meetings may be called by mutual agreement to consider matters related to the implementation of this Memorandum of Understanding.

Article 5

It is understood that the Participants' participation in the activities contemplated by this Memorandum of Understanding is subject to the availability of appropriated funds.

Article 6

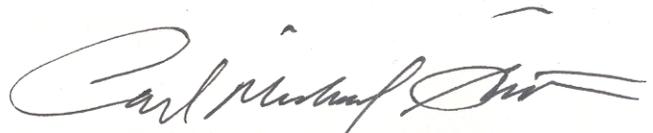
Consultation under the Memorandum of Understanding will cease five (5) years after the date of signature, unless the Participants decide in writing that continued consultations would be beneficial.

DONE, in duplicate, in the English language.



FOR THE MINISTRY OF COAL
OF THE REPUBLIC OF INDIA:

Date: 12 Sept. 2003
Place: New Delhi, India



FOR THE DEPARTMENT OF ENERGY
OF THE UNITED STATES OF AMERICA:

Date: 8/6/03
Place: Washington DC, USA