



INDIA - US

WORKING GROUP ON COAL

23rd Sept 2009, Washington DC.

Areas Initially Identified for Cooperation

- ✓ **Coal beneficiation, waste coal utilization and coal fines recovery**
- ✓ **Coal mine safety**
- ✓ **CBM, CMM & AMM**
- ✓ **OB dump stability**
- ✓ **In-situ coal gasification**
- ✓ **Extraction of steep seams**
- ✓ **Preparation of feasibility study of Mine- III project for Neyveli Lignite Corporation Ltd.**

Status of Projects

Coal Beneficiation, Waste Coal Utilization and Coal Fines Recovery

1	CBM/ CMM/ ACMM Conference and orientation Visit to the United States	CMPDI has taken up to develop Data package for one coal field for commercializing CMM after techno-economic evaluation.. CMPDI is already on the job for formulate the R&D proposal. The schedule date of completion of this project is Nov'10.
2	CB/WCU/FCCR Conference/Workshop in India	CB Workshop held in August 2007 along with APP
3	Engagement of Experts for Commercial Venture Modelling	It is now clubbed with R&D proposals
4	Development of a CB/ WCU Model Project	R&D Proposal on cost effective technology for beneficiation and recovery of fine coal has been finalised in consultation with US side. Implementation procedure is to be finalised.

Status of Projects

Coal Beneficiation, Waste Coal Utilization and Coal Fines Recovery

5	FCCR Orientation Visit to the USA	- Yet to be taken up
6	R&D Project – Beneficiation technology for low volatile coking coal.	This activity can be taken up as a project through BCCL. The module that will be designed through this project can be constructed within an existing washery.
7	Developing a Coal Cleaning Plant Simulator Coal	- R&D Proposal on Developing a coal cleaning plant simulator has been finalised in consultation with US side. Agreement will be signed now.

Status of Projects

COAL MINE SAFETY

1	Exchange of Technical Safety Information, Electronic access	- Action already initiated and data being exchanged
2	Training at the National Mine Health and Safety Academy & identification of opportunities - visit to USA	- Visit to US under APP was held in Dec. 2006 - Training yet to take place
3	Regulatory Information Exchange	- To be clubbed with AP6 CMTF Steering Committee on Occupational Health & Safety

Status of Projects

CBM, CMM & AMM

1	CBM/CMM/ACMM Conference/Workshop in India	CBM workshops have been held by Min. of Petroleum & Natural Gas and also Min. of Coal.
2	CBM/CMM/ACMM Orientation Visit to the United States - Regulatory Provisions	Draft Co-Development Plan for simultaneous extraction of Coal and CBM has been finalised.
3	Coal-bed Methane Clearinghouse Initiative	Kickoff event was held on 19.11.2008 inaugurating CBM Clearing House at Ranchi followed by a workshop on CBM potential in India. The participation in the Workshop were from USEPA, Ministry of Coal, Coal India, ONGC, Directorate of Hydrocarbons, DGMS and many other private operators.
4	Development of a CBM/CMM Model Project	Possibility of participation in an on- going CBM project to be discussed.

Status of Projects

OVERBURDEN DUMP STABILITY

1	Engagement of Experts for Resource Modelling	<ul style="list-style-type: none">- A six member Indian team from CIL & SCCL visited some of the sites/facilities in USA in October 2006- Two Indian coal companies have placed orders for application of Highwall technology in their mines. Some more proposals are in the offing.
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Status of Projects

IN-SITU COAL GASIFICATION

1	UCG Conference/ Workshop, Location: India	- A 3 day UCG Workshop was held during 12-14th Nov. 2006 in Kolkata
3	Development of a UCG Pilot Project	Guidelines for application of UCG in India have been framed. Govt. / Private operators are trying to linkup with US experts for formulating viable UCG projects.

Status of Projects

EXTRACTION OF STEEP SEAMS

1	- Engagement of Experts	- A six member Indian team from CIL & SCCL visited some of the facilities in USA in October 2006 This is not being pursued as Indian conditions are much steeper (~ 70°).
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Status of Projects

PREPARATION OF FEASIBILITY STUDY OF MINE-III PROJECT- NLC

1	Engagement of Experts	-The Consultant had submitted the report. The proposed Shovel – Dumper combination is costlier.
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THANK YOU