

Paper Details	
ld	692
Paper	DUST(SPM) PROBLEM IN OPEN CAST COAL MINES AND THEIR MANAGEMENT
<b>Requested Topic</b>	Student Presentation
Accepted Topic	Undecided
Keywords	SPM, respirable dust
Author	Mr. Raj K Sharma
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Abstract	dust control
Status	Received
Sponsor	aapg
Presentation Mode Requested	Oral
Presentation Mode Accepted	Undecided
Av Tools	Slide
Receipt Date	2010-05-31
Receipt Mode	On line
Hotel Aid	
Travel Aid	
Registration Aid	
Registered	No
Remarks	
Filename	abstract raj.doc



## DUST (SPM) PROBLEM IN OPEN CAST COAL MINES AND THEIR MANAGEMENT

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The air quality in coal mine is characterize by suspended particulate matter (SPM) and gaseous pollutants ( $NO_x$ ,  $SO_2$ , CO,  $CH_4$  etc). among these SPM is a pollutant in the mine air the characterization of SPM in terms of shape, size, and mineralogical composition. Whether dust particles in solid or liquid, they behave similar where air borne. Dust particles size is less than 5 micron meter is called respirable dust. Respirable dust is physiologically very harmful. Radiological studies indicated that nearly fifteen percent of mine workers were suffering from pneumoconiosis. Therefore respirable dust sampling on routine basic is must for every mine.

Different control measures for SPM having control efficiency. Water spraying is also not effective for all minerals due to different physio-chemical characteristic of SPM.