EARTH RESOURCE TECHNOLOGY CONSULTANTS

EARTH RESOURCE CENTRE

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BLAST INFORMATION MANAGEMENT SYSTEM

BIMS

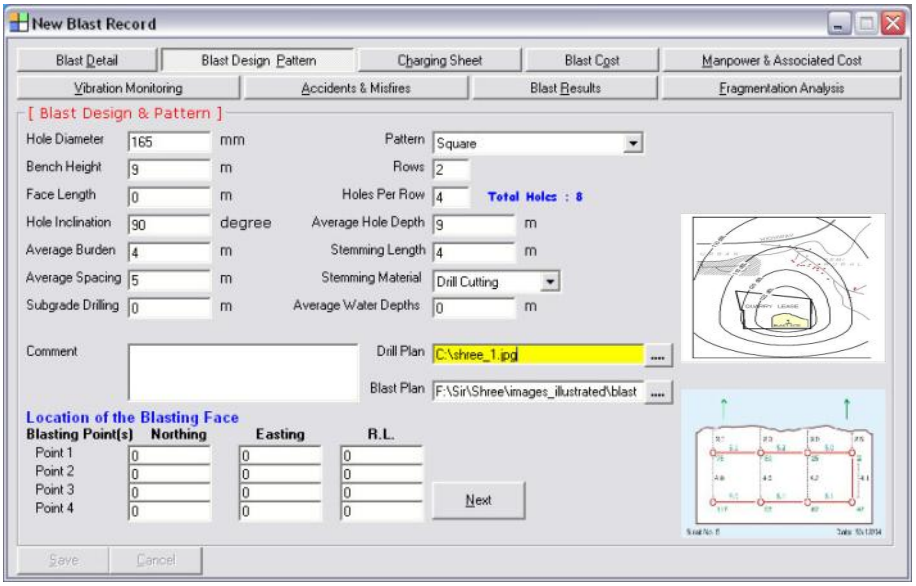
Software for Storing, Analyzing, Managing and Retrieving Drilling and Blasting Information Data

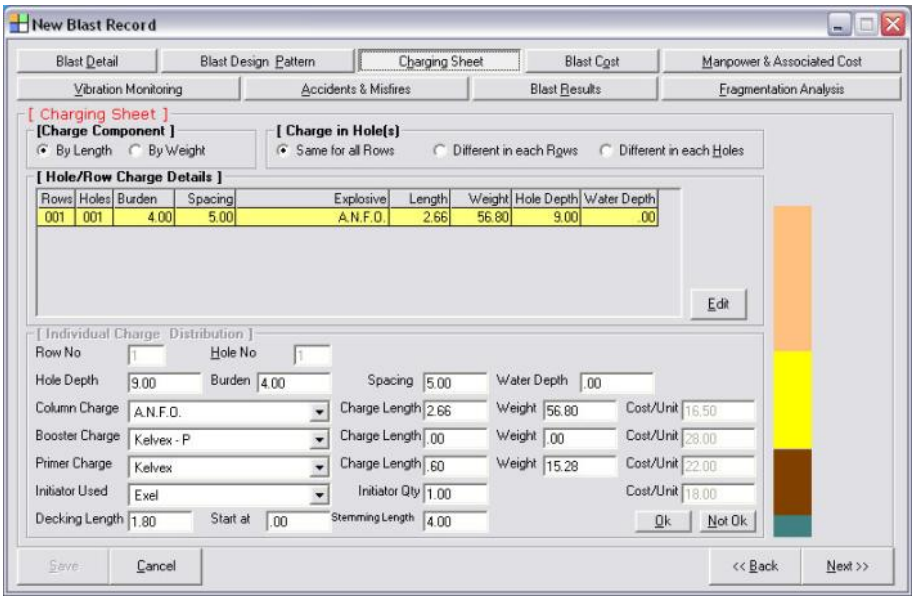
Vast amount of drilling and blasting information data are generated during daily production operations. This data needs to be stored, analyzed, audited, documented and managed at various stages of a mine or quarry for planning, controlling and decision-making. The manual methods of data storage and file management take time and resources for providing critical information for making decisions. Blast Information Management System (BIMS) has been developed for storing, managing, and retrieving drill and blast related information to provide better control and optimization of mining and quarrying operations. Appropriate blast designs for particular areas of different geotechnical zones can be identified. Performance and cost of blasts can be monitored and stored in a manner convenient for both quick and future referencing, thereby ensuring systematic archiving of local drilling, blasting and geotechnical experience and data, and transfer of technology between engineers and/or operators.

This tool provides a way of trapping the experience of drilling and blasting personnel in proper documentation of the drilling and blasting process from design through to implementation and results, which can facilitate continuous improvement.

The system generates reports for individual blasts, monthly explosive consumption, stock, cost, vibration monitoring and monthly blast . It also helps in inventory management. It helps in analysis by ability to track interrelationships between the various variables related to geology, design etc. in timely manner, providing with accurate understanding of the operations and ability to provide data to those who need to evaluate operations.

- *Blast ID*
- *Blast Design & Pattern*
- *Explosive Charging Sheet*
- *Blast Cost*
- *Manpower & Associated Cost*
- *Vibration Monitoring Data*
- *Accidents & Misfires*
- *Blast Results & Performance*
  - *Videos, Photos, Flyrock & Displacement*
- *Fragmentation Analysis*





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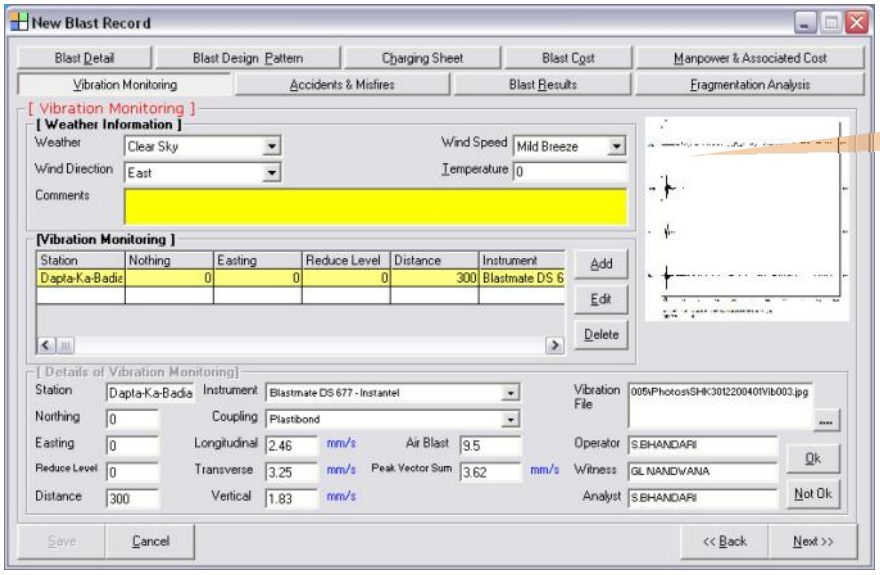
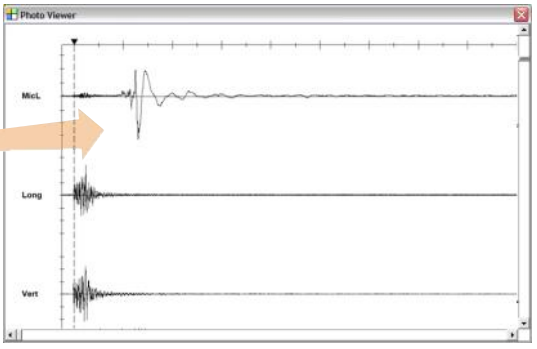
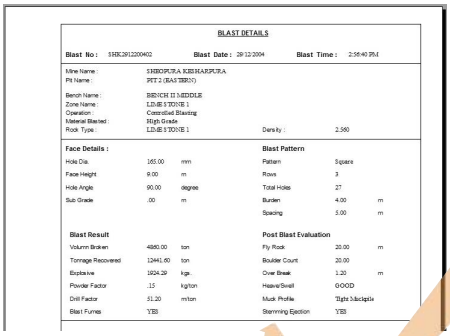




BIMS has been developed to run on PC under Microsoft 98/2000/XP using Microsoft Access database. The use of databases allows an efficient way to manage and query the vast amount of information generated from the day to day blasting activities to meet the strategic and operational needs for the mines/quarries. The programme can be customized to link with organization management information system. The PC based database software has been designed to be user friendly and require little training as such it easy for mine personnel to use.



Reports

Search Criteria