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# Department of Minerals & Energy

## Notice 732 of 2007

### Safety in Mines Research Advisory Committee (SIMRAC) on behalf of the Mine Health and Safety Council (the Council)

SIMRAC, a permanent committee of the Mine Health and Safety Council, was established in terms of the Mine Health and Safety Act (29/1996) to conduct research and surveys regarding, and for the promotion of, health and safety in the South African mining industry. Suitably qualified agencies and/or persons are invited to submit proposals in response to the project specifications in this Notice.

A consultative process has resulted in the Council formulating a co-ordinated, long-term health and safety research programme and identifying priority areas for research to commence in the 2007/2008 cycle. Researchers and agencies are invited to submit research proposals for the research projects indicated. Proposed research must be well designed with a detailed methods section, be ethical *and* must have the potential to add to existing knowledge, practice or technology, involve the end users and implement/transfer outputs. Research teams must have the specified skills.

### Submission of Proposals

1. Proposals must be submitted in accordance with the prescribed format. Contact Cheryl Jones at telephone 011 358 9180, fax 011 403 1821, e-mail [cjones@mhsc.org.za](mailto:cjones@mhsc.org.za) or visit the SIMRAC website [www.simrac.co.za](http://www.simrac.co.za) to download the submission template. PLEASE NOTE THAT THE NEW FORMAT NEEDS TO BE USED.
2. Queries regarding the aims and objectives of the thrusts listed in this notice can contact the following persons:  
Engineering and Machinery: Dragan Amidzic at [damidzic@mhsc.org.za](mailto:damidzic@mhsc.org.za) (011 358 9109)  
Rock Engineering: Duncan Adams at [dadams@mhsc.org.za](mailto:dadams@mhsc.org.za) (011 358 9193)  
Occupational Health: Audrey Banyini at [abanyini@mhsc.org.za](mailto:abanyini@mhsc.org.za) (011 358 9183)  
SIMRAC Chairperson: Thabo Gazi at [thabo.gazi@dme.gov.za](mailto:thabo.gazi@dme.gov.za) (012 317 8461)  
Proposal Submission: Cheryl Jones at [cjones@mhsc.org.za](mailto:cjones@mhsc.org.za) (011 358 9190)
3. Proposers are requested to take note of past work in the different thrust areas. (Details are available on website [www.simrac.co.za](http://www.simrac.co.za)).
4. The closing time and date for the receipt of the proposals is 12:00 on Friday 6th July 2007. Late entries will not be considered.
5. Two copies of each proposal, in a sealed envelope, in a form suitable for photocopying plus a disk or CD with the proposal in MS Word, should be deposited in the repository labeled "Proposals" at the Council's offices".
6. The Council may at its sole discretion, decide to recommend the acceptance, rejection or amendment of any proposal and to commission the team to develop the proposal on the basis of which the contract is awarded. The Council shall not furnish any reasons for its decisions regarding proposals.

7. Every proposal accepted by the Council would be subject to a set of Terms and Conditions, which on acceptance of the final detailed proposal will form part of the contract applicable to the project. All prospective proposers should peruse a set of the standard terms and conditions prior to submitting a proposal. A copy of the draft standard terms and conditions is available on the SIMRAC website [www.simrac.co.za](http://www.simrac.co.za).
8. Charge-out rates have to be in accordance with the rates specified by the Science Council, ECSA and SACNAPS
9. Preference will be given to proposals that are composed of a project team with HOI's.
10. In compiling proposals, prospective proposers should provide details of methods, identifiable outputs and estimated costs as indicated.
11. The Council will endeavour to solicit the services of South African organisations to undertake projects, but will consider proposals from overseas-based organisations if expertise, cost considerations and local capacity building components compare favourably.
12. The Council requires full disclosure regarding all subcontracts included in the proposal.
13. The proposer and any of its affiliates shall be disqualified from providing other goods, works, or services under the project if, in the Council's judgment, such activities constitute a conflict of interest with the services provided under the assignment/project.
14. Where an output includes a device, mechanism, procedure, or system capable of being applied in the mining environment, a prospective proposer shall include in the proposal an output which suggests how the outputs in question might best be applied in practice. In drafting proposals, all prospective proposers should bear in mind the potential for technology transfer and phasing the project as indicated.
15. The period for which the proposals should be held valid is 150 days.
16. During this period the proposal must undertake to maintain, without change, the proposed key staff, and must hold to both the rates and total price proposed; in case of extension of the proposal validity period, it is the right of the proposer not to maintain their proposal
17. The anticipated commencement date of the projects is 1 August 2007.
18. Each proposer has to submit a TAX Clearance Certificate with the proposal
19. A BEE Questionnaire has to be completed by each proposer. The questionnaire can be obtained from Cheryl Jones at [cjones@mhsc.org.za](mailto:cjones@mhsc.org.za)
20. Each successful proposer may, during the contract period or shortly after its completion, be required to provide:
  - A competent spokesperson with appropriate materials to make not more than two separate presentations, on an annual basis for the duration of the project, and
  - A technical paper on the project for publication and/or a poster presentation, without additional remuneration or reimbursement of costs.These activities must be detailed and casted within the project.
14. Where relevant, proposers may obtain copies of earlier project reports and other information from the website address or from contacts listed (See paragraph 1 and 2).

15. Proposers are advised that all Council projects should be submitted to language editing and may be subjected to technical and financial audits. Funding for editing and audits should be included in the proposal budget
16. Proposers should substantiate and cost separately, all proposed travel outside the borders of South Africa in connection with the project, and provide details of all expenses such as travelling and subsistence.
17. All proposed project costs must be expressed in South African Rands and the total price must be VAT inclusive. Fluctuations in the exchange rate and purchase of forward cover should be considered when costing the proposal.
18. The Council will take all reasonable steps to ensure that confidentiality of proposals is maintained during the adjudication process. If a proposal is not accepted within the programme, the Council may invite additional proposals on the topic.
19. No unsolicited proposals will be included in the programme for 2007/8.
20. The following three-stage evaluation procedure will be followed:
  - a. A technical evaluation of the proposal that will consist of the following items and weight allocations:

1.	Capability and capacity of the project team	
1.1.	Relevant formal qualifications	5
1.2.	Knowledge of relevant OHS issues in mining industry	5
1.3.	Experience in conducting research in this area	5
1.4.	Balance of team composition and competencies	5
1.5.	Resources and facilities available	5
1.6.	Track record: quality, on-time and within budget	5
2.	Research design and methods	
2.1.	Appropriate study design and protocol	5
2.2.	Representivity, sample, strategy and size	5
2.3.	Technical methods (tests etc)	5
2.4.	Intended analysis of results	5
2.5.	Ethics, risks and limitations	5
3.	Research outputs	
3.1.	Appropriate format	5
3.2.	Usefulness	5
3.3.	Potential impact	5
3.4.	Technology transfer	5
	Total Score - Technical	75

- b. A price evaluation that will be calculated as follows:

$$Ps = (P_{min}/P_t) * A_p$$

Where

$P_s$  = % scored for price by proposal being evaluated

$P_{min}$  = price of lowest bidder

$P_t$  = price of proposal being evaluated

$A_p$  = % allocated for price aspect of proposal (15%)

- c. A preferential procurement purposes using the following criteria and weightings:

- The proposals will each be given a score out of 100 that will be converted to a score out of 10 for the SIMRAC evaluation process
- Commercial Entities will be evaluated against the following criteria and weightings:
  - Ownership - 20/0
  - Management - 10%
  - Employment Equity & Skills development - 30%
  - Preferential Procurement - 30%
  - SMME Status - 10%
- National Institutions and Public Entities will be evaluated against the following criteria and weightings:
  - Ownership - 0%
  - Management - 30%
  - Employment Equity & Skills development - 40%
  - Preferential Procurement - 30%

The objectives of the Council in commissioning health and safety research, for both general and commodity-based projects, are to:

- Obtain and evaluate information to establish evidence-based risk assessment, standard setting and health and safety performance measurement;
- Develop techniques or guidelines to prevent, reduce, control or eliminate risks;
- Develop and pilot innovative ideas and procedures, where appropriate, to eliminate, reduce or control risk;
- Obtain information on the extent of work-related ill health;
- Identify, develop and improve sampling and measurement techniques to detect environmental hazards and assess personal exposure;
- Understand the etiology and identify and evaluate best-practice screening, diagnostic and treatment interventions to reduce the impact of occupational disease;
- Evaluate the effectiveness of control interventions;
- Understand risk perception, attitudes and behaviour related to health and safety and promote best practices in hazard recognition and procedural conformance;
- Empower its statutory committees to formulate policy, expedite research aimed at improving the health and safety in the South African mining industry; and
- Collaborate with national and international initiatives and research to promote health and safety in the mining industry.

The criteria by which proposals will be evaluated include:

- Added value and impact - the Council supports research which can contribute significantly to the improvement in the health and safety of South African miners;
- Value for money - the Council supports cost-effective research;
- Innovation - the Council welcomes new approaches or new areas of focus for research leading to technologies or best practices to improve health and safety;

- Excellence - the Council demands excellence, particularly in the methods employed to conduct research, be it quantitative or qualitative, and hence will consider the track record of the proposer/s for expertise and delivery (quality, time and to budget);
- Use and development of research skills - the Council requires research teams to possess the skills relevant to the success of the project and also favours projects which assist in developing research capacity, particularly in previously disadvantaged groups;
- Collaboration - the Council places a high priority on collaboration between researchers and the "teams of excellence" approach. Thus, the means of soliciting research proposals is intended to stimulate collaboration between centres of excellence and individual experts in order to optimise the use of the Council funding and the research outcomes.
- Development of key indicators - the Council recognizes the challenge in assessing performance and improvement in health, as opposed to safety, in the mining industry. There is a lack of suitable occupational health (OH) indicators and baseline data. Thus innovative and robust research to develop relevant OH indicators and baseline values will be favourably considered.

The Council's research and implementation programme consists of occupational health and safety, addresses occupational medicine and hygiene, rock engineering, engineering and machinery, behavioral issues and technology transfer processes.

Each proposal must:

Address only the research topic advertised and this must be specified;

Be in the format indicated and the template specified using Word format; and

Be phased as indicated in the project scope.

## Thrust

Thrust 9 Special Projects

## Project title

SIM 06 09 05 Programme for small scale mining (phase 1)

## Motivation

The Small Scale Mining (SSM) operations in SA are at present ill defined with unknown numbers of miners employed. This sector has potentially huge health and safety deficiencies. Safety statistics of this sector are not satisfactory. There is a need for a structured approach towards SSM issues, which would result in a set of guidelines and recommendations in order to regulate this sector.

## Primary outputs

- 1) A report detailing a list of current small scale mining operations in existence, their current technical, financial and health & safety status.
- 2) A set of recommendations regarding legislation, training needs, environmental issues and cooperation with major mining operators.

## Scope

Review all small scale mining operations. Consider the following

- Profile of SSM sector - identify the size of the industry (current situation) and investigate related international situation
- Organize workshop with all interested parties in order to review past initiatives (MQA, Mintek, DoL, Council for Geoscience, Universities, CSMI)
- Identify existing problems and issues covering current legislation, health and safety aspects and technological challenges (engineering and rock-related)
- Investigate training and continuous knowledge transfer on health and safety requirements and environmental issues
- Assess possible linkage with formal sector / large operators.

## Estimated duration

12 Months

## Typical reCipients of the Report

MHSC stakeholders

## Requirement for technology transfer

Report and Guidelines

## Special skills and facilities required by project team

Analytical skills and experience on the mines. Excellent organizing and project management skills.