

**The Singareni Collieries Company Limited
(A Government Company)
Registered Office: Kothagudem Collieries – 507 101**

“EXPRESSION OF INTEREST “(EoI)”

For procuring Blast Information Management System (BIMS) software, Blast Designer for Surface Mines (BLADES), Wave front Reinforcement Predictor and Fragmentation Predictor Software for blast design in Opencast mines.
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The Singareni Collieries Company Limited (SCCL) is a Government coal mining company jointly owned by the Government of Telangana and Government of India on a 51:49 equity basis. Coal Mining in SCCL was started in the year 1889 with a production of 0.06 Million tons and the production reached to 62.01 Million tons during the year 2017-18. Presently, operating 29 Underground mines and 19 Opencast mines Spread in 6 districts of Telangana State.

In opencast mining method, explosives are used in order to break through the surface, or overburden (OB), of the mining area.

Blasting operations in OC mines play vital role not only in improving the performance of HEMM i.e. Dumper & Shovels, etc. but also in reduction of environmental pollution viz. blast induced ground vibrations, noise, air overpressure, dust, etc

Every year, SCCL has been releasing Purchase Orders worth of about Rs. 600 Crores per year for procuring permitted UG explosive and OC explosives to break the OB and coal additionally above the SCCL SME/SMS production.

At present there is no suitable system/method except writing a hard copy for recording day to day explosive data on explosive usage at the site i.e., at mines and losing data after a few years.As such the earlier experiences and encountered strategies are not being shared on day to day basis from the stored data for any analysis either for failure or success.

For surpassing the ambitious planning projections of the coal targets in near future, it may be required to go OC explosives even up to 755 T/day (more than Rs two crores /day @ Rs. 27,000 per T).

Earlier blasting data is also useful for fixing of Bench Mark Powder Factor of all opencast mines.

If the explosive is used in a planned manner with laid down procedure as per the CMR and PESO conditions, it gives a way to streamlines the utility of the explosive and

reflects on the productivity and performance. This will result in saving on the explosive usage cost.

In view of the above, SCCL proposes to procure software's for the following activities:

- for storing, managing, retrieving and most importantly analyzing drill and blast related information like blast details, blast parameters, blast patterns, face profiles, explosive consumption, charging details and all measurements like vibration records, photos and video.
- design of blasts, calculate blast parameters i.e. burden, spacing, square/staggered pattern layout with charging options.
- to detect and avoid increase in both air and ground vibration from both surface and underground blasting operations caused due to reinforcement and to assess controlled blast design parameters for safe blasting operation at nearby villages and important structures.
- Providing minimum instantaneous charge to the operator that ensures compliance with vibration level restrictions by design rather than by accident.

SCCL invites Expression of Interest (Eoi) from firms with requisite technical know-how, experience in utilization of software's related to the above scope.

The interested agencies are requested to submit the 'EOI' for **1. Blast Information Management System, 2. Blast Designer for Surface Mines (BLADES), 3. Wave front Reinforcement Predictor and 4. Fragmentation Predictor Software suitable** for optimising the blast design in opencast mines of SCCL.

The 'EOI' shall reach the following address on or before 15.09.2018 by 5:00 pm.

General Manager,
Research and development
The Singareni Collieries Company Ltd.,
PO: Kothagudem Collieries – 507 101
Bhadradi kothagudem Dist.
Telangana State, India.
Tel. No. (08744) 245647
Fax No. (08744) 241362/242305
e- mail ID: gm_rnd@scclmines.com

The Singareni Collieries Company Limited reserves the right to accept / reject any offer in full or part or all the offers without assigning any reasons whatsoever.

General Manager (CP&P)