

## **Vendors meet for installation of the Air Cooling System at Shanthikhani Mine of the Singareni Collieries Company Limited**

The Singareni Collieries Company Limited (SCCL) is situated in southern part of India and having its operations in six districts of northern Telangana i.e., Kumuram Bheem Asifabad, Mancherial, Peddapalli, Prof. Jaya Shankar Bhoopalpalli, Bhadradi Kothagudem & Khammam Districts.

SCCL is operating 29 Underground mines and 19 Opencast mines and produced 62.01 Million tonnes of coal during 2017-18. SCCL is supplying coal to most of the customers situated in Telangana and to some extent in southern parts of India and some parts in Maharashtra. SCCL also operates captive power plants and recently installed 2x600MW Thermal Power Plant at Jaipur, Macherial District.

SCCL propose to install an Air Cooling System at Shanthikhani Mine to send cooled air to underground mine workings to maintain comfortable work place environment.

### **Brief Description of the Mine:**

Shanthikhani Mine is an operating underground mine in Mandamarri Area of the SCCL situated near Bellampalli Town of Macherial District. The mine is well connected by Rail and Road, nearest Railway Station being Bellampalli in Kazipet-Balharsha Section and it is at a distance of about 290km from Hyderabad by Road.

The mine opened in the year 1954 and started producing coal from 1957. At present development is completed to a depth of 450m and further development is planned to be taken up to a maximum depth of 670m. It is planned to develop and extract Salarjung Seam and No.2 Seam by deploying Continuous Miner, Roadheaders/Bolter Miner and Longwall.

The available total extractable reserves in Salarjung seam and No.2 Seam is about 53.82MT and the life of the Mine is expected to be about 25 years with annual production of 2.5MT. Continuous Miner technology is already introduced and operations with Bolter Miner is planned to commence shortly.

### Description of the proposed Air Cooling System:

Sl No	Parameter	Description
1	Capacity of the cooling system	<ul style="list-style-type: none"><li>To cool the air to 6.0-8.0 °C from an ambient temperature ranging from 20.0-48.0 °C</li><li>Airflow rate is about 50m<sup>3</sup>/s (1,08,000 cfm)</li><li>Use of antifreeze is not recommended</li><li>Capacity may be expanded to about 100m<sup>3</sup>/s in near future</li></ul>
2	Duty	<ul style="list-style-type: none"><li>Continuous rated</li></ul>
3	Type of the system	<ul style="list-style-type: none"><li>Screw type water cooled water chillers</li><li>Multiple units of 200-300TR each are recommended</li></ul>
4	Air Handling Units (AHU)	<ul style="list-style-type: none"><li>Suitable AHU's to cool the air by chilled water</li><li>Multiple number of AHU's are recommended</li></ul>
5	Condenser cooling system	<ul style="list-style-type: none"><li>Water cooled type with suitable cooling towers</li></ul>
6	Place of installation	<ul style="list-style-type: none"><li>At surface of the mine near the mine entrance (Shaft)</li><li>Within 10-20m from mine entrance</li><li>Discharge air from AHU's to be coursed to the mine entrance by suitably insulated duct work</li></ul>
7	Efficiency	<ul style="list-style-type: none"><li>Entire equipment used shall be of best in class in efficiency and shall offer excellent coefficient of performance (CoP) and EER</li></ul>
8	Reliability	<ul style="list-style-type: none"><li>Entire plant shall have very high reliability with lowest maintenance cost</li></ul>
9	Standards	<ul style="list-style-type: none"><li>Entire plant shall conform to the relevant Indian/International standards with respect to design, safety and efficiency</li></ul>

### Vendors Meet:

It is proposed to conduct Vendors Meet for supply, erection and commissioning of the above mentioned Air Cooling System at Shanthikhani Mine.

Vendors are requested to participate in the meet to be held as per the schedule and venue mentioned hereunder:

**Date** : **18.07.2018**

**Time** : **11:00 AM**

**Venue** : **Singareni Bhavan, Red Hills, Hyderabad**

**Contact persons:**

General Manager (CP&P)  
Corporate, Kothagudem,  
Bhadradi Kothagudem District,  
Telangana -507101  
PH: 08744-243108  
Fax:08744-243001

**Interested Vendors may visit the mine site prior to the meet:**

Contact person to guide the site visit:

Sri. K. Venkateshwarlu,  
Project Officer,  
Shanthikhani Longwall Project,  
Mandamarri Area, SCCL.  
Mob: 94911 44200  
Off : 08735 222061