THE SINGARENI COLLIERIES COMPANY LIMITED
(A GOVERNMENT COMPANY)
Regd.Office: Kothagudem Collieries (PO)-507101, Bhadradri Dist., Telangana State
CIN: U10102TG1920SGC000571

EXPRESSION OF INTEREST

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, Bhadradri Kothagudem & Khammam Districts. 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 has produced 62.01 Million tonnes of coal during 2017-18 and dispatched 64.62 Million Tonnes of coal to various categories of consumers during 2017-18 and set a production target of 65.00 Million Tonnes for the year 2018-19. SCCL is operating 29 underground mines and 19 Opencast mines to meet the linkage requirements of major Power (66%), Cement (13.5%), Captive Power (6.6%), Sponge Iron (3.1%) and other Customers (10.8%). SCCL is a Pioneer in introduction of various state of the art underground technologies in its mines such as Longwall, Blasting Gallery and Continuous Miner technologies etc.,

SCCL invites Expression of Interest(s) for "Outsourcing sinking and lining of Return Air Shaft of finished dia of 7.50m & approx. depth of 360m from surface to floor of drainage gallery below Salarjung Seam (SJ Seam) at Shanthikhani Longwall Project, Mandamarri Area of SCCL.

I. SINKING AND LINING OF RETURN AIR SHAFT OF FINISHED DIA OF 7.50 MTRS & APPROXIMATE DEPTH OF 360 MTRS FROM SURFACE TO FLOOR OF DRAINAGE GALLERY BELOW SALARJUNG SEAM (SJ SEAM) WITH NECESSARY WATER GARLANDS, INSETS AND ELEVATION OF SHAFT COLLAR UPTO 1.0M HEIGHT AND OTHER ASSOCIATED WORKS AT SHANTHIKHANI LONGWALL PROJECT, MANDAMARRI AREA OF SCCL.

Shanthikhani Longwall project is situated in Mandamarri Area. It is proposed to sink a Return Air Shaft with a finished diameter of 7.5 m for a depth of 360m through outsourcing. The main features of the scope of work are furnished below.

a) **The Shaft collar:** It consists of excavation of mixed type of soil and strata including excavation in rock for the nominal inclination and lining of 1200MM to 500MM thick RCC M20 lining. Four sets of pockets 1m below the brick work shall be left in the shaft to facilitate platform erection while fan drift construction is under taken. The collar concreting shall be elevated by 1.0 m above ground level.

b) **Shaft lining & curbing**: 500MM/300MM thick RCC Grade M-20 with curbing for locking at every 30m interval and 2m above the insets shall be carried out. 'Weep holes' of 50mm dia shall be left in the shaft lining at a vertical interval of 10m, 2m apart in a zigzag manner as advised and at the roof of every water garland, shale, coal & clay bands.

c) **Shaft Inset at floor of No.2 Seam**: Double sided, driven to a length of 10.0m on each side of the shaft center, at the floor of No.2 Seam. Inset mouth with a finished dimension of 5.2m (width) x 3.85 m (vertical height of side–wall), diminishing to 5.2m (width) x 1.8m (vertical height of side-wall) and bypass of 1.2m (width) x 1.8m (vertical height side wall) around the shaft at the inset level. Arched roof and walls of inset of 500mm thick RCC of Grade M-20.

d) **Shaft Inset at floor of SJ Seam bottom section**: Double sided, driven to a length of 10.0m on each side of the shaft center, at the floor of SJ Seam bottom section. Inset mouth with a finished dimension of 5.2m (width) x 3.85 m (vertical height of side–wall), diminishing to 5.2m (width) x 1.8m (vertical height of side-wall) and bypass of 1.2m (width) x 1.8m (vertical height side wall) around the shaft at the inset level (Four openings).Arched roof and walls of inset of 500mm thick RCC of Grade M-20.

e) **Water garland:** Excavation, lining and construction of 20 Nos. of concrete water garlands in RCC M-20 lining connected with 200mm dia special/Non-corrosive pipes, at suitable levels. The pipe range for the water garlands shall be fixed to the shaft with the help of rigid and loose supports. The drainage pipe from the just above water garland of inset shall be coursed along the shaft lining and inset side wall. (The required pipes and fittings will be provided by the Company free of charge).

f) **Curbing/Locking Shaft wall**: Extra excavation and RCC lining required for curbing / locking in the shaft wall at every 30m vertical interval and 2m above inset throughout the shaft. The 1st curbing shall be at a depth of 10.0 mtrs (depending upon the specific site conditions) and the next curbing's at intervals of 30 mtrs, depending on the specific site conditions. Curbing need not be constructed wherever water garland is to be provided.

g) **Floor matting in the sump**: Casting of 0.30m thick M20 RCC flooring for Sump matting purpose shall be carried out.

h) **Strata grouting:** It is anticipated, during sinking of shaft, loose strata and heavy percolation of seepage water may be encountered. To ensure long term stability of the

shaft, the shaft shall require cement grouting for Strata stabilization and water control management in advance.

i) **Disposal of muck generated and seepage water during sinking**: The muck produced during excavation of the Return air shaft shall be dumped in the Area, within 500m from the proposed shaft mouth. The dirty water discharged from the return air shaft during sinking shall be coursed through settling tanks before releasing/pumping it to the natural drainage/ underground sump.

j) **Time Schedule:** The time schedule for sinking and lining of the return air shaft inclusive of shaft lining, insets and other allied works and cleaning the site after completion of shaft sinking operations is 36 months. The average rate of progress assumed for shaft sinking inclusive of lining is 13m per month and for one inset drivage is 1½ month. To ensure completion schedule, the operation should be planned at a higher rate of progress to take care of all exigencies.

k) Finally the successful bidder has to quote rate in Rs.__ per unit for different works involved in shaft sinking as mentioned in the NIT BOQ and the price bids will be evaluated based on total value of the works quoted by the bidders for execution of the referred Return Air Shaft.

Date: 30.01.2019, Time: 3:00 PM

Venue: Singareni Bhavan, Red Hills, Hyderabad

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