



THE SINGARENI COLLIERIES COMPANY LIMITED
(A GOVERNMENT COMPANY)

Regd. Office: Kothagudem Collieries (PO)-507101, Bhadradi 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, Bhadradi 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 introducing 6 Continuous Miner Units on outsourcing model for excavation of coal in the following Underground mines:

- I. Procure, install operate and maintain Continuous Miner (Package) equipment for excavation of coal by Caving method from IK 1A Incline, Srirampur Area:**

Select, procure, transport, install, operate and maintain Continuous Miner Package of equipment for coal excavation from no 3 Seam developed panels towards south side and work all the panels in phased manner from dip to rise with caving as indicated in the plan and in consultation with SCCL.

There are 6 seams in IK 1A Incline viz. no 1A seam, no 1 seam, no 2 seam, no 3A seam, no 3 seam and no 4 seam. All of these seams are

already developed and It is proposed to extract all these developed seams by opencast method except no 3 seam.

In no 3 seam the property is identified towards north and south directions from main incline. Towards north side, the estimated reserves are about 20.0 Lakh tonnes in which 6 SDLs are working with hydraulic sand stowing to produce a target of 2.4Lakh tonnes per annum.

Towards south side, the estimated reserves are about 20.0 Lakh tonnes in which it is proposed to extract coal by continuous miner technology with caving method to produce coal @ 2.5Lakh tonnes per annum to liquidate total coal within a period of 8 years. The thickness of no 3 seam is about 6.0m and gradient is about 1 in 3.5. The property in no 3 seam towards south side was developed along apparent dip at gradient flatter than 1 in 5 along bottom section.

The successful bidder shall erect suitable capacity load centers/substations in the Underground including the capacity required for pumping of water from the working panels.

Finally the successful bidder has to quote for payment of fee in Rs.____ per tonne delivered at the dispatch point by extracting the coal by Continuous Miner technology by Selecting, procuring, transporting, installing, operating and maintaining all the equipment indicated in the respective phases.

II. Procure, install operate and maintain Continuous Miner (Package) equipment for excavation of coal by hydraulic stowing from KASIPET 1 Incline, Mandamarri Area:

Select, procure, transport, install, operate and maintain Continuous Miner Package of equipment for coal excavation by development /depillaring with hydraulic stowing from the developed panels in no 1 seam, no 3 seam and no 4 seam and work all these panels in phased manner from dip to rise along with stowing in all the three seams from top most seam

(i.e., no 1 seam) to bottom most seam (i.e., no 4 seam) as indicated in the plan and in consultation with SCCL.

The required quantity of sand/POB/bottom ash for stowing will be supplied by SCCL up to the stowing bunkers on surface.

There are 3 seams in Kasipet 1 Incline viz. no 1 seam, no 3 seam and no 4 seam with a thickness of about 6m, 3m and 3m respectively. At present no 1 seam is being developed with a height of about 2.5m with SDLs. In no 3 seam and no 4 seam, 80% of the property is already developed and the workable reserves in these seams are about 16.71LT with splitting and slicing as final operation. The proposed area in these seams is having a gradient flatter than 1 in 5 and It is planned to extract all these developed pillars by deploying Continuous Miner with hydraulic stowing @2.0LT per year for a period of 8 years as the proposed area is below the surface structures (village & nallah). The 6 SDLs deployed in this area will be shifted to south side of the mine. The production supporting activities such as roof supporting, transportation of coal upto the surface etc. will be in the scope of the bidder.

At present, 6SDLs and 2LHDs are being worked in no 1 seam, no 3 seam and no 4 seam to produce 3.0LTPA. Towards south side of the mine, new set of entries were driven from surface to enhance mine capacity to 5.0LTPA. The gradient of this area is about 1 in 3 and it is proposed to develop the area along apparent dip and later depillar the same with caving by deploying SDLs departmentally. The 6 SDLs deployed in north side will be shifted to this area in phased manner.

The successful bidder shall erect suitable capacity load centers/substations in the Underground including the capacity required for pumping of water from the working panels.

Finally the successful bidder has to quote for payment of fee in Rs.____ per tonne delivered at the dispatch point by extracting the coal by Continuous Miner technology by Selecting, procuring, transporting, installing,

operating and maintaining all the equipment indicated in the respective phases.

III. Procure, install operate and maintain Continuous Miner (Package, 2 Units) equipment for excavation of coal by development and depillaring with caving from KASIPET 2 Incline, Mandamarri Area:

Select, procure, transport, install, operate and maintain Continuous Miner Package (2 Units) of equipment for coal excavation by development in board and pillar method in no 1 seam and no 3 seam and later extract the developed panels in phased manner from dip to rise in these seams from bottom most seam (i.e., no 3 seam) to top most seam (i.e., no 1 seam) as indicated in the plan and in consultation with SCCL.

There are 2 seams in Kasipet 2 Incline viz. no 1 seam and no 3 seam with a thickness of about 3.50m and 3.0 to 3.50m respectively. The reserves in no 1 seam and no 3 seam are about 3.52MT and 4.12MT respectively. Recently, tunnels are connected to no 3 seam and preparatory works are going on to develop no 3 seam with SDLs. The gradient of no 1 seam and no 3 seam is about 1 in 2.5 to 1 in 3. It is proposed to introduce 2 CM units in no 1 seam and no 3 seam in phased manner to produce 5.0LTPA @2.50LT per unit.

Due to steep gradient, it is proposed to develop workings along apparent dip of 1 in 5 to 1 in 5.5 along dip direction and rise galleries will be driven perpendicular to dip galleries at gradient of 1 in 5.5 to 1 in 6 forming rectangular pillars. As seams are more than 3.0m thick, development of galleries can be planned with a height of 2.0m to maintain cutting horizon. Keeping in view of floor coal stability, to enable coal transport vehicles movement, mobile conveyors/track mounted loaders can be planned as per bidders' choice of selection.

The bidder can select suitable cutting and loading technology to achieve an annual production target of 5.0LT in no 3 seam and subsequently in no 1 seam after 2 years with complete production supporting activities such

as roof supporting, transportation of coal upto the surface by erecting suitable conveyor system etc. will be in the scope of the bidder.

The successful bidder shall erect suitable capacity load centers/substations in the Underground including the capacity required for pumping of water from the working panels.

Finally the successful bidder has to quote for payment of fee in Rs.____ per tonne delivered at the dispatch point by extracting the coal by Continuous Miner technology by Selecting, procuring, transporting, installing, operating and maintaining all the equipment indicated in the respective phases.

IV. Procure, install operate and maintain Continuous Miner (Package, 2 CM Units) equipment for extraction of coal by development and depillaring with caving/hydraulic stowing from GDK 11 Incline, Ramagundam I Area:

Select, procure, transport, install, operate and maintain Continuous Miner Package (2 CM Units) of equipment for coal excavation by development in board and pillar method in no 3 seam and no 4 seam and later extract the developed panels by caving/hydraulic stowing in phased manner from dip to rise simultaneously as per the method suggested by the scientific agency (i.e., no 3 seam top section, no 3 seam bottom section and no 4 seam) as indicated in the plan and in consultation with SCCL.

There are 3 seams in GDK 11 Incline viz. no 1 seam, no 3 seam and no 4 seam with a thickness of about 5.5 to 6.0m, 9.0 to 9.5m and 2.5 to 3.4m respectively. The reserves in no 1 seam, no 3 seam and no 4 seam are about 5.5MT, 11.12MT and 5.56MT respectively. The gradient of all seams will be in the range of 1 in 6 to 1 in 7. At present, coal extraction is being done with CM technology in no 1 seam. It is proposed to introduce 2 CM units in no 3 seam and no 4 seam each in phased manner to produce 8.0LTPA @4.0LT per unit for a period of 10 years.

As no 3 seam is more than 9.0m thick, development of workings can be planned in two sections with a partition of about 4.0m. After development,

the top section of no 3 seam can be extracted with caving; bottom section with stowing and no 4 seam can be extracted with caving simultaneously. The bidder can select suitable cutting and loading technology to achieve an annual production target of 8.0LT with 2 nos of Continuous Miner units including ancillary equipment such as shuttle cars, roof bolter etc., The production supporting activities such as roof supporting, transportation of coal upto the surface or pre-designated point such as strata bunker in UG will be in the scope of the bidder.

The successful bidder shall erect suitable capacity load centers/substations in the Underground including the capacity required for pumping of water from the working panels.

Finally the successful bidder has to quote for payment of fee in Rs.___ per tonne delivered at the dispatch point by extracting the coal by Continuous Miner technology by Selecting, procuring, transporting, installing, operating and maintaining all the equipment indicated in the respective phases.

Date: 30.01.2019, Time: 10:00 AM

Venue: Singareni Bhavan, Red Hills, Hyderabad

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