



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

Ref. No: CRP/CP&P/EOI/ /2025

Date: 02.01.2025.

**INVITATION FOR "EXPRESSION OF INTEREST (EOI)" FOR CARRYING OUT DEVELOPMENT AND EXTRACTION OF COAL SEAMS BY INTRODUCING LONGWALL OR OTHER SUITABLE TECHNOLOGY EQUIPMENTS IN A PHASED MANNER BY OUTSOURCING MODEL IN SHANTIKHANI MINE, MANDAMARRI AREA, SCCL**

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**1. ABOUT SCCL:**

The Singareni Collieries Company (SCCL) is a Government company with equity participation of 51% by Government of Andhra Pradesh and 49% by Government of India. The Company's mining operations in Godavari Valley Coalfield, extended in six districts of Telangana State.

Godavari Valley Coalfield is having a strike length of 350 km and covers an area of 17,000 square km. The coal reserves are of non-coking and bituminous type.

SCCL supplies coal to a diverse customer base ranging from power utilities, cement plants, captive power plants and pharmaceutical companies to small sector units like brick kilns etc. About 80% of its coal production is linked to power plants situated in the states of Telangana, A.P, Maharashtra and Karnataka.

SCCL is a profit making company and is paying dividend to its shareholders for the last 20 years.

## **2. TECHNICAL DETAILS AND CONDITIONS FOR THE ABOVE SUBJECT:**

### **A. Shantikhani Mine Details:**

#### **i. Location:**

Shantikhani Longwall Project Mine of M/s Singareni Collieries Company Limited (SCCL) is an underground mine located towards about 6.5 Kms on the East side of the Bellampalli railway station of South Central Railway. The area falls in Mancherial district of Telangana State (India) in Godavari Valley Coalfields. The area of the present Shanthikhani Longwall Project Mine is 1432.01Hac. The mine lies between North longitudes  $19.0716^{\circ}$  N and East Latitude of  $79.4912^{\circ}$  E. It covered by Survey of India Topo Sheet No. 56M/12. The nearest railway station is Bellampalli on Kazipet – Ballarshah railway line, which is about 7km away from the mine. Mancherial district head quarter is about 32km away from the mine.

#### **ii. General information:**

The Shanthikhani mine was started in the year 1954. There are two workable seams in Shanthikhani Mine, i.e. Salarjung seam and 2 seam. The gradient of the seams varies from 1 in 3.5 to 1in 5 and the grade of the coal varies from G7 to G14. The thickness of Salarjung seam varies from 6.5m to 7.5m and No.2 Seam is about of 4m to 5m. The entries of main incline are used for transportation of material and the man way is used for transportation of coal by belt conveyor system. No.2 seam is a virgin property, and in Salarjung seam Bolter miner machinery is being deployed for development of Trunk dip, Gate roads and Inter connections for preparation of LW panels at a depth of 450m to 600 m. Present Trunk dip development was done up to 600 m depth, i.e. up to 67L, coal evacuation is being done by series of belt conveyors and material transport by rope haulage. And further Trunk dip roadways are to be driven in Salarjung seam after obtaining expansion EC up to dip side boundary of 73L depth up to 700m and from there Long wall panels are to be planned on North side of trunk roadways in Salarjung seam, whereas South side property of the trunk dips in Salarjung seam is virgin and development & depillaring with suitable technology is to be required.

- a) The total life of the project is about 10 years (Peak capacity of 15 LTPA). Including the period of development and depillaring the coal.
- b) The coal seams in this Shanthikhani project are considered as Degree-I gassiness.

**B. Shantikhani Mine Land & Surface features:**

- i. TOTAL LEASE AREA** : 1432.01 Ha
- a) Shantikhani mining lease : 401.70 Ha.
- b) Tandur Mining lease : 1031.05 Ha.
- ii. MINE BOUNDARY 1432.75 HA.**
- a) Forest Land : 782.83 Ha.
- b) EC Area of 681.23 Ha, Capacity : 1.167 MTPA
- iii. PROPOSED EC EXPANSION AREA: 344.66 Ha.**
- a) Forest Land : 138.57 Ha.
- b) Non Forest Land : 206.09 Ha.

**C. Details of Geological & Extractable Reserves:**

**General:**

Shanthikhani Incline area has four workable seams, namely Top seam, middle seam, Salarjung & Ross Seams in descending order. In top seam all (14 Nos) panels depillared and abandoned. In Middle seam 37 panels de-pillared & 2 panel's property left over around Air shaft area. In Bottom seam 27 panels depillared 5 panel's property is left over around Air shafts area. At present Salarjung seam is being worked. The Details of the seams are given below.

Seam	Thickness (m)		Parting (m)	Depth (m)		Grade	RMR
	Min	Max		Min	Max		
Top Seam	2	2.5		33	179		47
Middle Seam	2.5	3		32.25	257		--
Salarjung Seam North Side–Thick Seam	7.0	7.5	7	400	650	G15	47
South Side–Splitted Bottom Section & Top Section	2.5	3.0		420	440	G9 G15	48
Ross Seam	1.5	2	24	35	228		41

Note: The Thick seam i.e. Salarjung Seam is existing on North side of main incline and dip side of 36m down throw fault. On south side of main incline Salarjung Seam splitted into Top and Middle Sections. The Ross seam got thinned out from 0.50mtrs to 1.00mts thick below 36m down through fault.

Quality of coal (2017-18): SalarJung Seam: -G9-Bottom Section, G-14- Top Section

**Number/Name of seams being worked:**

<u>Sl. No.</u>	<u>Seam</u>	<u>Thicknes s(m)</u>	<u>Direction and Avg dip of the seam</u>	<u>Depth in (m)</u>		<u>State of working</u>
				<u>Min.</u>	<u>Max.</u>	
<u>1</u>	<u>Top Seam</u>	<u>2 to 2.5</u>	<u>N 55000'00" E &amp; 1 in 4 to 4.50</u>	<u>33</u>	<u>179</u>	<u>No operation</u>
<u>2</u>	<u>Middle Seam</u>	<u>2.5 to 3</u>		<u>32.5</u>	<u>257</u>	<u>No operation</u>
<u>3</u>	<u>Ross Seam</u>	<u>1.5 to 2</u>		<u>35</u>	<u>228</u>	<u>No operation</u>
<u>4</u>	<u>Salarjung Seam North Side- Thick Seam</u>	<u>7 to 7.5</u>		<u>420</u>	<u>650</u>	<u>Development with BM Technology</u>
<u>5</u>	<u>South Side- Splited Bottom Section &amp; Top Section</u>	<u>2.5 to 3</u>  <u>2.5 to 3</u>		<u>420</u>	<u>440</u>	<u>No operation</u>

**Strata Sections:** Strata section showing different coal seams at Shanthikhani through bore-hole SK-99 is given below: (SRL: 925.50)

Depth from surface(m)		Thickness of strata(m)		Status of seams with respect to proposed panel
3.0	405	402		Sand Stone
431.20	431.44	0.24		1A seam: Virgin Area
431.66	442	10.34		Sand Stone
445.0	446.20	1.2		1 Seam:-Virgin Area.
447.5	469	21.5		Sand Stone
469.20	473.5	4.3		2 Seam:- Virgin Area
473.61	493.53			Sand Stone
493.53	497.57			Local Band
494.75	514.29			Sand Stone
514.29	514.38	0.09		3B Seam:- Virgin Area
514.38	528.3			Sand Stone
528.3	528.58			3A Seam :- Virgin Area
528.58	540			Mg Sand Stone
540	546.5			SJ Seam :- Under development
546.52	583.7			Sand Stone
583.72	584.10	0.40		Ross Seam: Standing on pillars
584.10	587			Sand Stone

### Details of Coal reserves & Extractable Reserves

- |                                  |                       |
|----------------------------------|-----------------------|
| 1. No. 2 seam                    | : 75.87 MT & 11.00 MT |
| 2. Salarjung seam top section    | : 9.65 MT & 2.43 MT   |
| 3. Salarjung seam Bottom section | : 11.66 MT & 5.57 MT  |
| 4. Salarjung combined seam       | : 78.47 MT & 22.28 MT |

**Total Reserves : 175.65 MT & 41.28 MT**

**D. Proposed Extractable Reserves in Salarjung seam North property (After proposed Expansion EC):**

SL No.	LONGWALL NORTH SIDE	LENGTH	WIDTH	DEPTH	RESERVES (MT)		SURFACE FEATURES
					Dev.	Dep.	
1	LWP-1	1829	150	650M		1.48	1. LAMBADITHANDA 2. 2.TURUPU TANK 3. 3.ERRATANK 4. 4.400KV HT LINE
2	LWP-2	1985	150	550M		1.6	1.LAMBADITHANDA 2.ERRA TANK
3	LWP-3	2174	150	480M		2.06	1.NEW INDHIRAMMA COLONY 2.TS RESIDENCIAL SCHOOL 3. SEASONAL TANK
4	LWP-4	2317	150	430M		2.00	1.NEW INDHIRAMMA COLONY
5	LWP-5	2573	150	400		2.09	FOREST AREA
6	LWP-6	1365	150	380		1.1	FOREST AREA
<b>TOTAL</b>					<b>1.77</b>	<b>10.33</b>	<b>12.10 MT</b>

**E. Proposed South Side Extractable Coal Reserves In Salarjung Seam Bottom Section.**

S. NO	LOCATION	DEPTH		REASERVES(MT)			SURFACE FEATURES
		MIN	MAX	DEV.	DEP.	TOTAL	
1	SDL DEVELOPMENT SOUTH SIDE AREA	240	600	1	2.5	3.5	1.LINGAPUR VILLAGE 2. 800KV HT LINE RGM TO CHANDRAPUR
2	ODD PATCH AREA WITH SDL	440	600	0.6	2.02	2.06	400KV HT LINE

	<b>TOTAL</b>	<b>1.6</b>	<b>4.52</b>	<b>5.56</b>	
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**3. SCOPE OF WORK OF SCCL:**

SCCL shall undertake the following activities:

**A. Clean water supply:**

Clean sand filtered water as per the standards of O&M manual shall be supplied by SCCL up to energy train for the purpose of water spraying, dust suppressions & cooling of motors at the required quantities. However the contractor has to make his own arrangements to send the water at the required pressure by providing Pressure Reducing valves at strategic locations.

However, SCCL shall further supply RO water up to energy train for the purpose of hydraulics operations. However the contractor has to make his own arrangements to send the water at the required pressure by providing Pressure Reducing valves at strategic locations.

**B. Electrical Power:**

The Mine is being supplied by 11 KV system and operating at 3.3 KV.

Supply of electric power up to Transwitches required for the entire operations shall be to the scope of SCCL.

**C. Men & Material transportation:**

**a) Men Transport:** To minimize the travel time of workforce, SCCL shall provide man riding systems from surface up to starting of gate roadways.

A 600 KW man winding system is being used for transportation of men up to 43L/1D dip in Salarjung seam at a depth of 382 m. And further a 110 KW man riding chairlift system is being used for transportation of men up to 1DN/43L dip to NT 3Dip/ 63L about 1200 m length.

**b) Material Transport:** SCCL shall transport required material to and fro between surface and the entry of the long wall panel or entrance of the district.

The material transport and the facilities for the same up to the entry of the panel from the surface of the mine shall be provided by SCCL. However, handling of material on surface, loading, unloading etc. and the material transport within the panel from entrance of the panel shall be to the scope of the successful bidder. If any delay due to breakdown or any other reason and subsequent loss of production if any is not attributable to SCCL.

#### **D. Coal Evacuation:**

##### **Present Coal evacuation system is by BELT CONVEYOR SYSTEM**

At present the coal is being evacuated by means of belt conveyors from BM face to surface by operating 10 no's (8+2) of gear heads. Distance of about 4100mtrs and strata bunkers of 6 no's of each 30T capacity are available at 42L Belt dip. 2 no's of 30T bunkers are under preparation. A 100T capacity surface bunker is also available for coal dispatch.

#### **E. Mine Site Office:**

Unfurnished office accommodation facility at the mine site for the onsite Project Manager will be arranged by SCCL.

Surface work shop facilities:

**Warehouse Facilities:** Warehousing facility will be provided to the Contractor for keeping their spares and consumables with 24 hour access at free of cost. However the contractor has to make his own security arrangements for their Stores.

SCCL shall provide the suitable Crane facility beyond 40 tonnes required for equipment loading and unloading at surface near the mouth of the incline/Workshop/Contractor's site subject to availability without charging contractor.

#### **F. Accommodation:**

SCCL shall provide following unfurnished accommodation subject to availability without charging the contractor. SCCL will supply electric power without charging the contractor.

## **G. Other Facilities:**

In addition to the above, the Company shall provide the following additional facilities to the Contractor, on free of charge.

Cap lamps and flame safety lamps for Contractor's workers and supervisory personnel, shift wise at Shantikhani mine. The place of issue, number of Cap lamps and flame safety lamps to be provided to the Contractor shall be determined by the GM, MMR or PO, SK MINE.

The Contractor shall ensure that the cap lamps are duly returned to the lamp room, in proper condition, at the end of each shift. For any damage to, or loss of any cap lamp by the Contractor's men, the Contractor is liable to be charged, by the Company, at rates to be fixed by the GM, MMR area.

## **4. BRIEF SCOPE OF WORK FOR CONTRACTOR:**

**A.** it is proposed to include the following activities in the scope of the bidder along with development and extraction of coal by Long wall and other suitable technologies. The successful bidder shall procure, install and maintain in a phased manner all the facilities required for working of the Long wall panels i.e., face communication, support, lighting, pumping up to intermediate/main sump located within 500 m distance from the working panel(s), loading and transport of coal up to surface bunker at surface, power supply & water, support material, ventilation at the face and environment monitoring within the district.

i. **Underground Installations** - Belts for coal transportation, electrical and mechanical installations and drivage of inter seam tunnels are in the scope of bidder.

ii. **Procurement** of Longwall equipment or other suitable equipment for development in a phased manner, transportation and deployment for development of the workings by suitable technology in 5-6 trunk galleries up to the boundary and extraction in panels by retreating with Long wall equipment or other suitable technology.

iii. **Environment Monitoring** shall be done by the successful bidder within the Longwall working district.

iv. The successful bidder shall support the roof, suitable in accordance with approved **SCAMP under Coal mines Regulation 2017** and also as advised by the colliery manager/ project officer Shantikhani mine.

**OPTION 1:** Salarjung seam North side property development with suitable technology and depillaring while retreating with Long wall technology/suitable technology including Coal transportation up to surface bunkers.

**OPTION 2:** Salarjung seam North side property development with suitable technology and depillaring while retreating with Longwall technology and South side property development and depillaring with suitable technologies including Coal transportation up to surface bunkers.

**OPTION 3:** Salarjung seam North side property development with suitable technology and depillaring while retreating with Longwall technology, south side and odd patch property development & depillaring with suitable technology including Coal transportation up to surface bunkers.

**OPTION 4:** Salarjung seam North side property development with suitable technology and depillaring while retreating with Long wall technology/ suitable technology, including Coal transportation up to trunk belts.

**B. Proposed Drivage of Inter Seam Tunnels** (about 280m) for SJ seam south development negotiation of expected 2 no's of faults (F4 & F6) is required. Negotiation of Faults (F5 & F7) is required in SJ seam south for proposed Odd patch development.

**C. Scientific Study & DGMS Permissions:** The successful bidder shall arrange for detailed scientific study and design for extraction, and also obtain all the required permissions including DGMS permissions for deployment of Suitable Technology/method of working in the above mine.

Contractor shall ensure that the services under the contract will be performed in accordance with Indian Coal Mine Safety Regulations in force from time to time which the SCCL shall bring to the notice / attention of the Contractor and Contractor shall protect SCCL legitimate interests in all circumstances. However, any abnormal implication affecting either of the parties due to such changes will be mutually discussed and settled.

#### **D. STATUTORY SUPERVISION:**

Statutory supervision, such as Assistant Manager, Pit Engineer, Overman, Electrical Supervisor, Mechanical Charge-hand and Mining Sirdar to carry out statutory supervision under the scope of SCCL. However, Contractor has to appoint qualified certificate holder to carry out all the electrical installations, repairs and maintenance in the Contractor's scope.

#### **E. STRATA CONTROL:**

The implementation & monitoring of the strata control scheme SCAMP is to be the scope of the Successful bidder under the supervision of SCCL.

The Contractor shall arrange for Induced blasting and any other blasting at face including drilling and transport of explosives as stipulated by DGMS authority and as directed by the Colliery Manager depending on the strata conditions and SCCL will provide the shotfirer and explosives free of cost.

SCCL shall arrange for required explosive consumables (explosives, detonators and fuse wire etc. (without charging the contractor for explosives). However, shot firer/ Sirdar shall be provided by SCCL (without charging the contractor). Transport and handling of explosives to perform the required work shall be to the scope of the contractor.

#### **F. VENTILATION:**

SCCL shall supply the required quantity of air as per the statute at the in bye of the panel. as per the standards of ventilation under CMR 2017.

In Shanthikhani Longwall project mine, Total Number of entries are four, in which three are intake air ways and one is Return air Shaft in bottom seam. Mine is

being ventilated by 300HP Sulzar main mechanical ventilator at surface and one 300 HP Voltas main mechanical ventilator is standby.

Specifications of Main Fans	2 Nos ( 1 running + 1 standby)	
Make	SULZER	Voltas
Motor Capacity	300HP / 220kW & 3.3 KV	300HP /220KW & 3.3 KV
Fan Dia	2410mm	3000mm
Fan Speed	746 RPM	745 RPM
Fan Type	Axial flow exhaust	Axial flow exhaust
Motor Control System	Stator rotor control panel	Stator rotor control
Designed Air Quantity (Cu.m/min)	11000	10500
Designed Pressure mm WG	84	82
Blade angle	17.5 degrees	17.5 degrees

Construction of Preparatory Stoppings/ Isolation stoppings and their maintenance etc., as per statute, will be the responsibility of SCCL.

Preparation, Procurement of required material, provision of auxiliary fans, ducting etc., commissioning, extension, shifting the required arrangements for coursing of the air, also construction of ventilation walls required for maintaining the ventilation within the panel as per the statute shall be the responsibility of the successful bidder.

**G. SPONATENEOUS HEATING:** In course of the services to be performed under this contract, Contractor shall be responsible for adhering to Indian Coal mines safety laws.

Danger due to fire, inundation, roof falls, cavities etc. SCCL and Contractor shall follow the method of mining and other stipulations imposed by DGMS authorities for minimizing the risk of spontaneous heating. In case of any spontaneous heating in goaf and occurrence of fire if any, the same shall be dealt by SCCL and contractor has to extend his full support by way of sparing manpower, material and other resources available with them.

If any material is spared at the time of spontaneous heating to SCCL by contractor, either the material spared will be replenished or cost will be paid to contractor by SCCL. Goaf Inertisation is under the SCCL scope.

## **H. PUMPING & DRAINAGE:**

Mine make of water is 2000GPM and pumping capacity is 3500GPM. Pumping of water within the development/ depillaring panels up to the intermediate/ main sump located within a distance of up to 500 m from the working Long wall or other development working shall be under the scope of the Successful bidder & also management of water within the working panel is also to the scope of Successful bidder.

### **1. Detailed scope of work will be submitted after EOI.**

The qualified and interested bidders shall respond and submit their expression of interest in the Format furnished as attachment (ANNEXURE-II) on or before **17.01.2026** at the following address and may also contact at the following address for further details:

**General Manager, Mandamarri Area**  
**The Singareni Collieries Company Limited,**  
**E-mail id: [gm\\_mmr@scclmines.com](mailto:gm_mmr@scclmines.com)**  
**Web site: [www.scclmines.com](http://www.scclmines.com)**

**NOTE:** A Vendor meet will be organized with all the interested Firms expressed their interest and the detailed scope will be firmed up accordingly. The exact date and venue will be informed to the firms through their respective mails. Firms are requested to give a PPT (not more than 10 mins) regarding their experience in the related field, capabilities, credentials and technology details.



**FORMAT FOR SUBMISSION OF 'EOI'**

Date:

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- 1) Name of the Firm :
- 2) Permanent Address :
- 3) Address for correspondence :
- 4) Telephone No. :
- 5) Fax No. :
- 6) E-Mail :
- 7) Official Website :
- 8) Name of the Contact Person :
- 9) Mobile No. of the Contract Person :
- 10) Nature of Business of the Firm :
- 11) Experience in the related field :
- 12) Any other relevant information :

Signature of Authorized Signatory with Seal