

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

“EXPRESSION OF INTEREST (EoI)”

Project for EoI :

Establishment, operation and maintenance of CO₂ to Methanol conversion plant on industrial scale for conversion of 11000 tons per year CO₂ to 8000 tons of renewable green Methanol with state of the art technology at Singareni Thermal Power Plant, Jaipur Mandal, Mancherial (Dt), Telangana and marketing of Methanol and byproducts.

Introduction:

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 70.02 million tonnes during the year 2023-24. Presently, operating 22 underground mines and 17 opencast mines spread in 6 districts of Telangana State.

As a part of diversification, SCCL has established 2X600 MW coal based Thermal Power Plant (STPP). SCCL has planned to establish 532 MW of Captive Solar PV Power Plants in vacant lands. In stage-1, out of 300MW solar power plants approved, 234.5MW solar power plants were already commissioned and balance 65.5 MW plants will be commissioned shortly. In stage-2, 232.0MW solar power plants were approved and expected to complete these projects in FY 2024-25.

SCCL has ambitious plans to diversify into Green Hydrogen, wind energy, pumped storage, roof top solar energy, extraction of metal & non-metals, extraction of Rare Earth Elements, coal gasification, CO₂ to Methanol conversion projects.

Govt. of India also seeks to reduce its carbon emissions and meet its energy needs sustainably; CO₂ to methanol conversion is gaining importance in India's clean energy agenda. India's policy framework supports the development of technologies that utilize CO₂ in economically viable ways, with methanol conversion being one of the promising areas.

CO₂ to methanol conversion is essential for mitigating climate change, reducing reliance on fossil fuels, enhancing energy security, and enabling the circular carbon economy. It offers an innovative approach to utilize industrial CO₂ emissions while generating a valuable and versatile product that can be used in various sectors like chemicals, fertilizers, and transport.

CO₂ to methanol conversion is a promising process in the field of carbon capture and utilization (CCU). It involves converting carbon dioxide (CO₂), a major greenhouse gas, into methanol (CH₃OH), a valuable chemical feedstock and fuel

In line with Govt. of India policy initiatives, SCCL intends for **establishment, operation and maintenance of CO₂ to Methanol conversion project on industrial scale for conversion of 11000 tons per year CO₂ to 8000 tons of**

renewable green Methanol with state of the art technology at Singareni Thermal Power Plant, Jaipur Mandal, Mancherial (Dt), Telangana and marketing of Methanol.

In view of the above, SCCL invites **Expression of Interest (Eoi)** for the above-mentioned project from agencies / contractors with requisite technical know-how; experience related to the Tentative scope of work furnished here under.

Tentative scope of work:

I. Technical:

1. **Capacity of proposed plant:** Prospective bidder shall establish CO₂ to Methanol conversion plant on industrial scale for conversion of 11000 tons per year CO₂ to 8000 tons of renewable green Methanol with state of the art technology.
2. **Engagement of technical consultants:** Prospective bidder may engage technical consultants for design, construction, and operation and maintenance of the proposed project.
3. All matters related to technical aspects shall be dealt with by prospective bidder.

II. Commercial:

1. **Marketability Survey:** Prospective bidder shall undertake Marketability Survey as to the demand and supply of Methanol.
2. **Arrangements for safe storage etc. of Methanol:** Prospective bidder shall make own arrangements for safe storage, transport and sale of Methanol and its by-products.
3. **Revenue sharing:** Prospective bidder shall allow revenue sharing with SCCL on mutually agreeable terms and conditions.
4. **Business model:** Prospective bidder shall finance, design, build, and operate and maintain the proposed project on BOO business model..
5. **Electric power requirement:** Prospective bidder has to approach nearby TGNPDCL authorities for providing power supply to the Project after getting the exact power requirement.
6. **CO₂ tapping from flu gas:** SCCL will allow the tapping of CO₂ from flu gas from 2nd unit (600 MW) at Singareni Thermal Power Plant (STPP), Jaipur, Mancheriyal dt.
7. **Land allotment:** SCCL will provide about Ac 2- 04 Gts land on lease basis for construction of Methanol plant with in the premises of STPP, Jaipur after approval by the Board.
8. **Water Requirement:** SCCL will provide raw water facility on payment basis on par with charges being paid by STPP.

III. Financial:

1. **Capital investment:** Prospective bidder shall provide the capital needed for the proposed plant, usually through equity, debt, or a combination of both.
2. **Operational expenditure:** Prospective bidder shall bear the expenditure for operation and maintenance of the plant.

3. **Statutory approvals/clearances expenditure:** The expenditure for obtaining statutory approvals/clearances for establishing the plant shall be borne by the Prospective bidder.

IV. Legal:

1. **Environmental and other clearances:** Prospective bidder shall obtain Environmental and other clearances from State and Central Governments as per the rules applicable from time to time.
2. **Statutory / Non-statutory approvals:** Prospective bidder shall obtain Statutory / Non-statutory approvals from Govt., Semi Govt., Municipalities, Panchayat Boards, etc., as the case may be for establishing and operating the project.

Pre-tender vendor meeting:

SCCL wishes to have a Pre-tender vendor meeting (physical) with the interested & experienced agencies / contractors to firm up NIT specifications & scope of work.

The interested & experienced agencies/contractors are requested to submit EoI(Expression of interest) for **“Establishment, operation and maintenance of CO2 to methonal plant at STPP, Jaipur “**. through mail so as to reach **gm_rnd@scclmines.com** on or before **27.10.2024**.

For Further Information/Queries, please contact the following address:

General Manager,
Research and development
The Singareni Collieries Company Ltd.,
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E- mail ID: gm_rnd@scclmines.com

Subsequently, pre-tender vendor meeting is scheduled to be held on 28.10.2024 (Monday),04.00 PM at Singareni Bhavan, Lakidikapool, Hyderabad, Prospective bidders are requested to attend the same aong with their credentials

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 (R&D)

