

Execution Plan for Carbonated Fly Ash Brick (C-Brick) Plant

**Capacity: 2 Lakh Bricks per Day |
Location: NTPC Ramagundam**



We @ Hamtek Engineers Pvt. Ltd. consider the Carbonated Fly Ash Brick (C-Brick) project at NTPC Ramagundam

- As a special, prestigious, and highly promising opportunity.
- Being positioned as L1 in the financial bid, we are fully committed to delivering a world-class project.
- We will deploy a dedicated, passionate project management team, collaborate with proven technology partners, and ensure seamless, timely execution with adequate financial support.
- We have already held a detailed meeting with M/s. Buildmate Projects Pvt. Ltd. on Saturday to initiate strategic planning.
- Additionally, we are preparing to establish a temporary site office to commence civil-related preparatory works immediately.



Overall Execution Responsibility:-

- As an EPC Contractor considering our core strengths in project management, engineering coordination, procurement, construction, and financial discipline, we propose to execute this project if awarded as detailed here under for smooth execution of the full project.
- The complete plant design and technical approval will be carried out by our in-house design team with collaborative support from:
 - M/s. Veolia Carbon Clean India – CO₂ capture and integration.
 - M/s. Buildmate Projects Pvt. Ltd. – C-Brick process, machinery design & material handling systems.



Statutory Approvals:

Once we are awarded, we will discuss with Engineer in charge and commence the necessary document for required statutory approvals:

- Consent to Establish (CTE)
- Consent to Operate (CTO)
- Forest Clearances (if applicable)
- Environmental Impact Assessment (EIA)
- Quantitative Risk Assessment (QRA)
- Any additional statutory approvals as required.



CIVIL & STRUCTURAL WORKS

- We want to execute all civil and structural works through our regular trusted teams
- who have extensive experience executing industrial, power plant, and material-handling-related civil infrastructures



Strategic Partnership with Buildmate Projects Pvt. Ltd :-

We decided to partner with M/s. Buildmate Projects Pvt. Ltd considering:

- ❖ Their decades of proven experience in building materials technology.
- ❖ Successful execution of multiple innovative AAC.
- ❖ Similar project under execution i.e., and FALG plant in Korba.
- ❖ Their ability to mitigate risks associated with specialized carbonation-based processes.
- ❖ The locations of the project and Buildmate company are advantages for us for efficient execution of the project aspects like coordination, logistic, time and costs.

We will issue a back-to-back order to Buildmate for:

- Supply of core plant & machinery,
- Installation,
- Erection & Commissioning
- And Operation & Maintenance of the plant for one year.



CO₂ CAPTURE & INTEGRATION

- For CO₂ capture, we have partnered with M/s. Veolia Carbon Clean India, who will be responsible for:
 - Detailed engineering
 - Process design
 - Integration of CO₂ capture with NTPC flue gas system

Veolia Carbon Clean India's credibility is backed by operational CO₂ capture facilities in India's industrial sector,



CO₂ Transfer Pipeline :-

We will engage experienced pipeline engineering teams with proven Oil & Gas background to design and implement:

- ❖ Safe & compliant CO₂ pipeline routing
- ❖ Pressure & flow management systems
- ❖ Integrated safety interlocks
- ❖ Hazard-free and optimized gas transfer with minimal interface risks

This ensures secure and uninterrupted CO₂ supply for the carbonation process.

Conclusion:-

- ❖ We combine our strength in construction and management with the best-in-class, proven process know-how and technology from Buildmate and specialized carbon capture expertise from Veolia Carbon Clean.
- ❖ We will be placing back to back order with the required advance amount to our project partners. The financial strengths of our partnering company M/s. Buildmate Projects Pvt. Ltd will also strengthen the financial requirements for timely completion of the project.
- ❖ Being recognized as L1 in the financial bid, we are fully prepared and excited to execute this prestigious project, ensuring quality, safety, and timely delivery.

MANUFACTURING FACILITIES

Built Up Area : 18000 Sq. Feet

Spread Area : 183000 Sq. Feet

Owner : HAMTEK TECHNOLOGIES INDIA PVT. LTD.

**Location : 134 & 135, TSIIC, Chandanvalley Phase-III,
Telangana**



