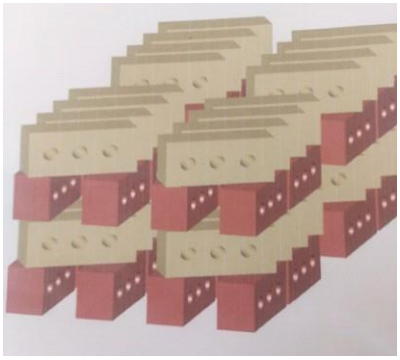
Production of Internal Fuel based low Carbon Footprint Burnt Clay Bricks with Criss-Cross Bricks Setting

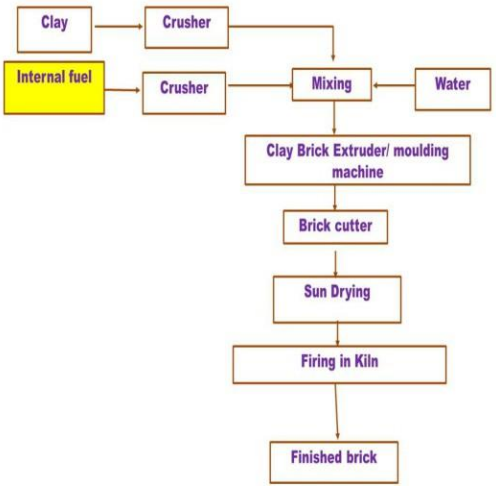
Technology in Brief

Fuel cost in the brick sector is around 45-50% of the total cost. The use of internal fuel not only results in proper heating of bricks while firing but also reduces overall fuel consumption. By using this process/technology coal consumption can be reduced up to 30%, and will also Significantly reduce the overall environmental impact. In internal fuel process, powdered fuel is mixed with clay prior to the moulding of bricks which serve as a fuel during firing. Cheaper fuels such as agriculture residue and industrial wastes may also be used as internal fuel.

Salient Features/Advantages

- Cheaper fuels like agriculture waste, bagasse, sawdust, bagasse, boiler ash, pulverized reject-coal etc used as internal fuel.
- Internal fuel used reduces the requirement of external fuel partially or fully.
- Reduction in the use of clay >30%.
- Strength of bricks is more than conventional brick making process.
- Negligible emission of SPM & GHG.
- Process is cost effective, eco-friendly and energy efficient.





End Product(s)	Eco friendly and energy efficient Brick Kiln
License/Commercialization	1) M/s Karma Bhatta Company, Baghpat 2) M/s Surya Bhatta Company, Sonipath 3) M/s Om Prakash @ Sons Auto Clay Fire Bricks 4) M/s Sauga Bricks Pvt. Ltd., Bagpat
TRL	9
Environmental Impact	Low carbon foot print
Setup - Equipment required	Brick extrusion machine, Internal fuel pulverizer, High RPM fan etc