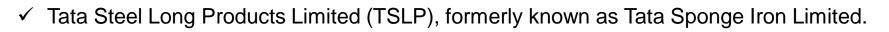


TATA STEEL LONG PRODUCTS LIMITED

TATA STEEL LONG PRODUCTS LTD. (TSLPL)

JOURNEY OF FLY ASH



- ✓ We are in the business of manufacturing high alloy steel, primarily for the auto sector and wire rope industry.
- \checkmark Capacity of ~1 million tonne capacity in the long product segment.
- ✓ We have coal based captive power plant of capacity ~70 MW apart from other steel making & waste heat recovery boilers.
- ✓ These Coal based power Plant generate ~ 18 KT/Month of Fly Ash (Including Bottom Ash).
- ✓ Initially most of the Fly Ash (90%) was being stored at ASH Mounds before accusation of Usha Martin.
- ✓ Post acquisition TSLP tried to push the Fly Ash Utilization in Brick Making / Cement Plants & other Paver Block manufactures.
- ✓ Door to Door Campaigns were run to spread awareness, whereas the transportation cost was born by TSLP in 2019.
- ✓ Bottom Ash was still a challenge to convince for its usage and consumptions.



TATA STEEL LONG PRODUCTS LIMITED





FACTS We deal with a variety of products from raw materials to **OUR VISION** finished goods. 01 To be one of the most innovative and enterprising by-products division of the We operate on the 3R principle (Reduce Reuse Recycle), world contributing towards the green journey of TSLPL. 02 We handle ~1.3 MTPA of byproducts spanning across 5+ categories and 50 + SKUs. **PURPOSE OF THE BUSINESS** 03 Reduce, Reuse & Recycle. **Downstream ***** Value creation of By-Products Value **Enhancement in** Converting into marketable products collaboration with 04 stakeholders. Moving downstream in the Value Chain Reducing top soil erosion by providing Fly ash Industrial By-Products Management Division

TATA STEEL LONG PRODUCTS LIMITED

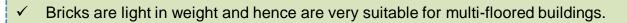
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Facts and Myths about FLY Ash



- ✓ Bricks made of Fly Ash are less strong than brick made of clay.
- \checkmark Fly ash bricks are not environment friendly and have more water abortion.
- ✓ High cost of production may require cement for binding etc.



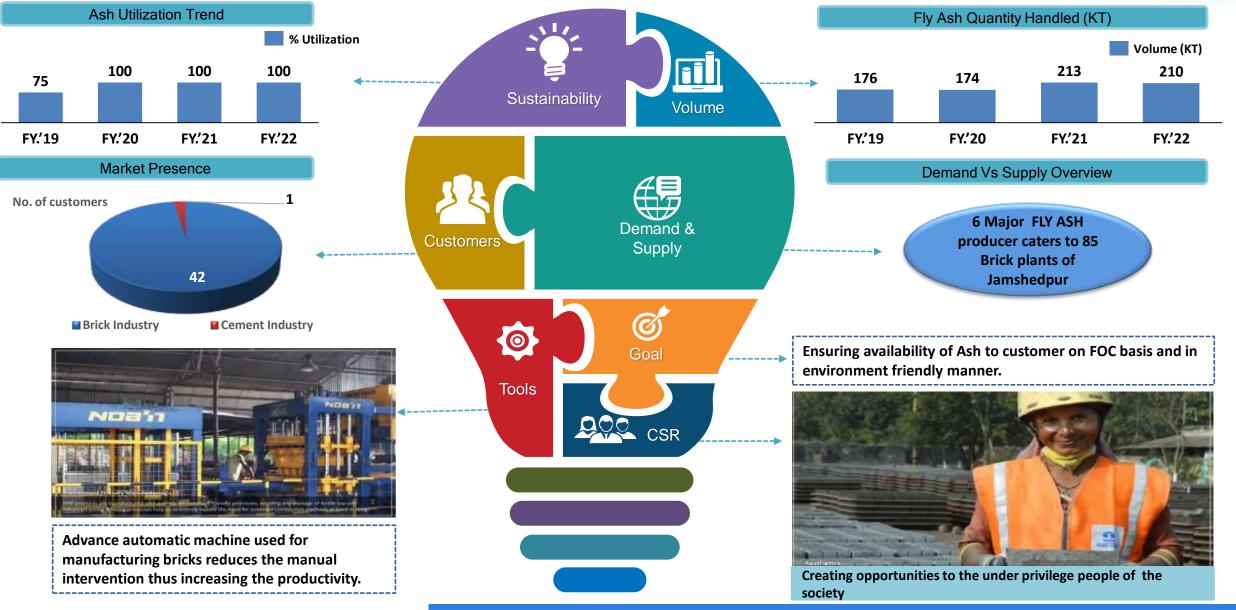
- ✓ Fly ash bricks absorb less heat and considering the Indian climate, it makes it better when compared to clay bricks.
- ✓ At cost front, it requires less mortar during construction. Further, the machine requires less labor too.
- ✓ The costs associated with water wastage and raw material wastage are lesser too.
- ✓ The compressive strength is very high, and they are less porous. They absorb less water and saves cost there, as well.
- ✓ It is environmentally friendly and hence allows your business to take a step towards sustainable development.
- ✓ Production of fly ash bricks requires no fossil fuel and hence does not lead to the emission of green house gases.
- ✓ Production of clay bricks damages the top-soil and this is prevented in the manufacturing process of fly ash bricks.
- ✓ There is no pollution or environmental damage, as a result of which it has been put into the white category of products.
- ✓ Fly ash bricks are stronger, more uniform and denser as compared to clay bricks.
- ✓ While their mortar consumption is low, their wastage is only about 1% as against that of clay bricks which are about 10%.





TSLPL FLY Ash Overview

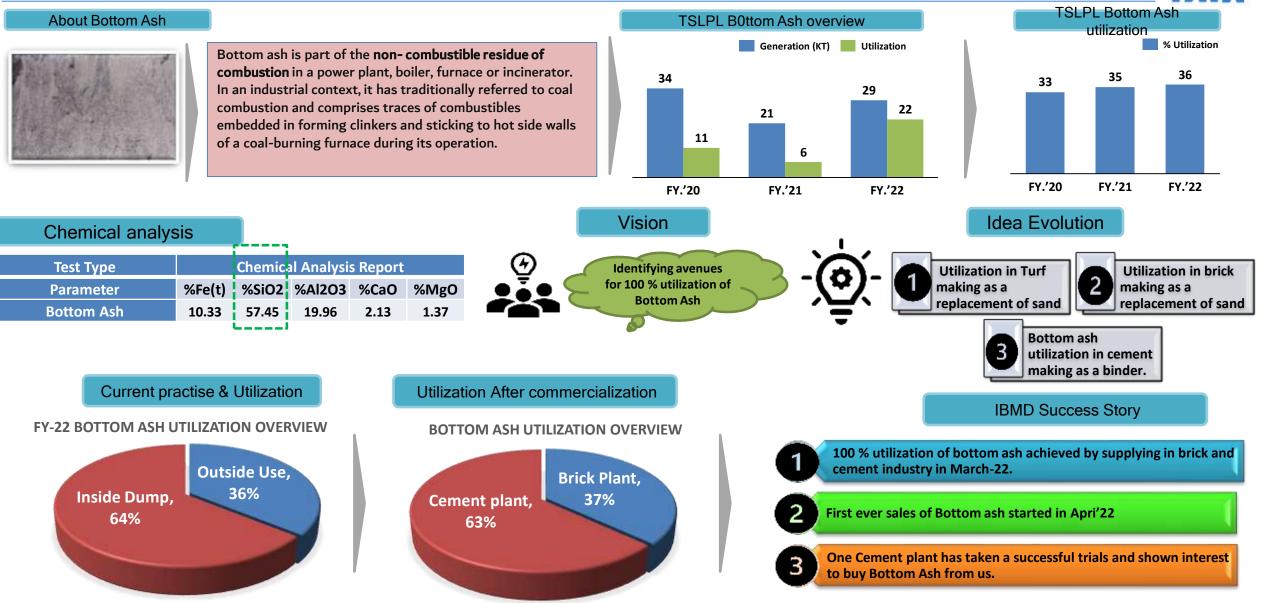




TATA STEEL LONG PRODUCTS LIMITED IBMD

Commercialization of Bottom ash





TATA STEEL LONG PRODUCTS LIMITED



Thanks

TATA STEEL LONG PRODUCTS LIMITED