

Effective solution for pumping clay in Brick Fields in Eastern India

This case study is about how Darling make solid handling pumps helped a private Brick making Company, to improve its process, increase its productivity & provide better & safer working conditions for its workers.

Problem faced by Customer :

The brick making is a very cumbersome process. Getting clay from river is very challenging & time consuming task. It often requires huge amount of manual intervention. The working environment are quite messy & unhealthy.

Although in the past, many parties have tried to use horizontal pumps to pump out clay from river but this method had little success as pump would often pump water instead of clay. Eventually they had to fall back on traditional method of drawing clay manually from river banks.



One of our engineer who happened to be visiting one such Brick field could not really phantom the working conditions. After lot persuasion he convinced the Brick field owner to try the option of our submersible slurry pump. However clay being sticky even slurry pumps had its challenges. But as is the case with Team Darling, we took this challenge as a opportunity & went deep to work out a most viable solution for this application.

It was quite evident that a stand alone of any kind, might not be able to perform in these conditions. The holistic solutions needs to be worked out, which is not only technically viable but is also easily affordable for Brick field owner.

CUSTOMISING NEED BASED SOLUTIONS HAS ALWAYS BEEN OUR FORTE BUT THIS ONE WAS QUITE MOTIVATING AS IT RESONATED DIRECTLY WITH OUR COMPANY PHILOSPHY OF “CHANGING LIVES FOR BETTER”

Solution Offered by Darling Pumps:

- A complete practicable solution was worked out which involved jetting, agitation, mixing & pumping of clay with water.
- A special series of pumps in (4WC Series - 10HP, 15HP & 20HP) were developed. These pumps are capable to cater up to water-clay ration of 50:50.
- Pump Hydraulic parts were made special abrasion resistant material.
- Entire arrangement was pre-installed on pontoon for easy movement & effective working
- Complete solution was not only delivered within given time line but we also ensured that it is within available budget as well.
- Our service technician were present at site for few days till the time user were fully satisfied & accustomed to given solution.



Benefits to the customer:

- Uninterrupted availability of clay for brick making
- No worries even if river water level goes down.
- More automated process, less manual involvement.
- No health hazards to the labors.
- Better revenues, comparatively less cost of ownership

Benefits of 4WC Series

- Inbuilt agitator arrangement.
- Inbuilt jetting arrangement.
- Protection against voltage drop.
- Light weight
- Options in 10HP, 15HP & 20HP.
- Higher velocity to move clay to long distance
- Highly abrasive resistant pump portion.



Darling 4WC Series Pump

END RESULT – IT GIVES US IMMENSE SATISFACTION THAT WE COULD ACTUALLY CHANGE THE LIVES OF BRICK FIELD WORKERS FOR BETTER & LIVE UP TO OUR COMPANY'S PHILOSOPHY.

Note: For more details about this case study, you can contact: +91-9981992833