The corrected slurry is stored in storage tanks and kept ready to serve as feed for rotary kiln. Fig.2.8 shows the flow diagram of various steps involved for cement manufacturing by wet process method.

It is thus seen that in case of mixing of raw materials by dry process, the raw mix is formed and in case of mixing of raw materials by wet process, the slurry is formed. The remaining two operations namely, burning and grinding, are the same for both the processes.

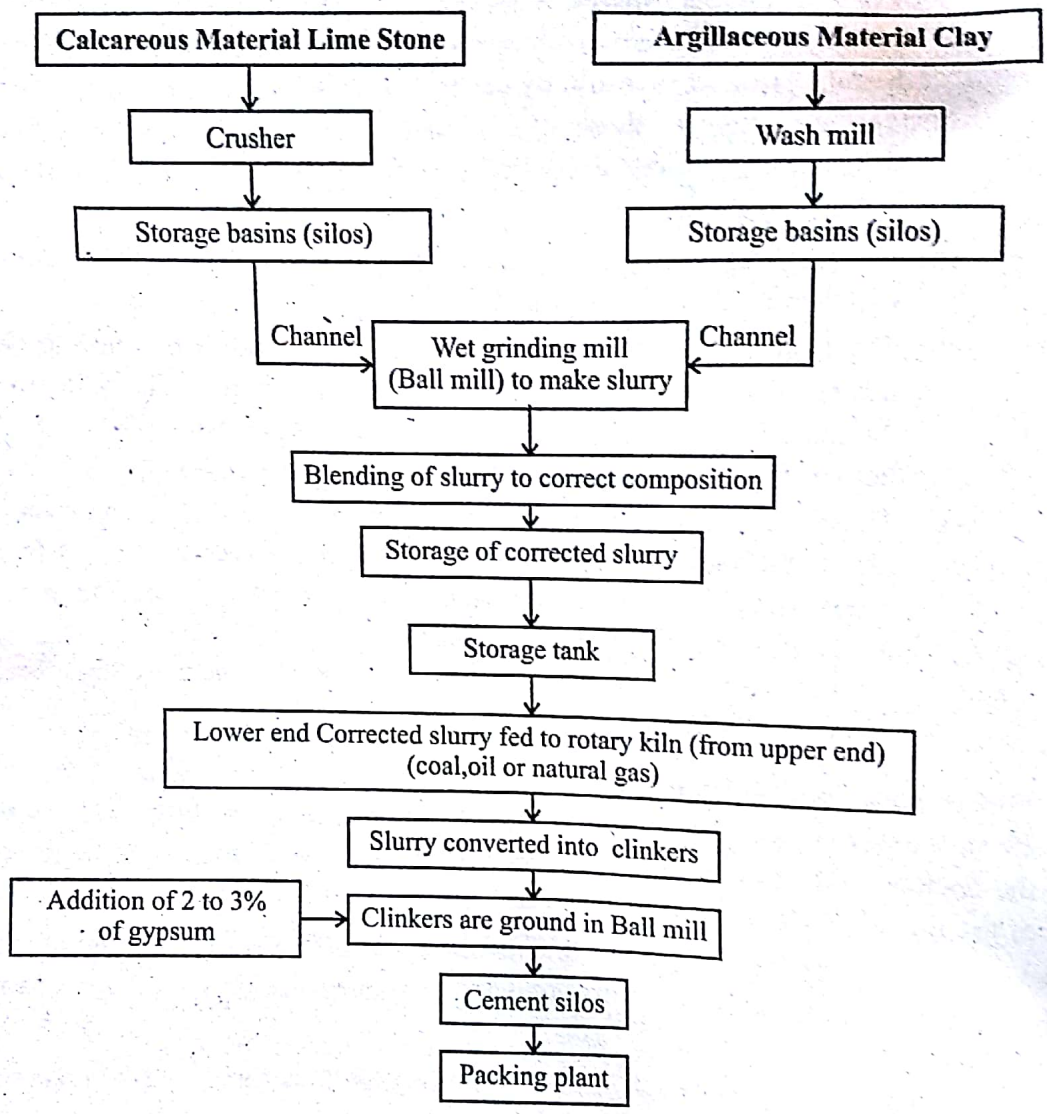

Fig .2.8 Various steps involved in manufacturing of cement using wet process

2.9.2 Burning

The burning is carried out in a rotary kiln as shown in Fig.2.9. A rotary kiln is formed of steel tubes. Its diameter varies from 2.50m to 3m. Its length varies from 90m to 120m. It is laid at a gradient of about 1 in 25 to 1 in 30. The kiln in supported at intervals by columns of masonry or concrete.

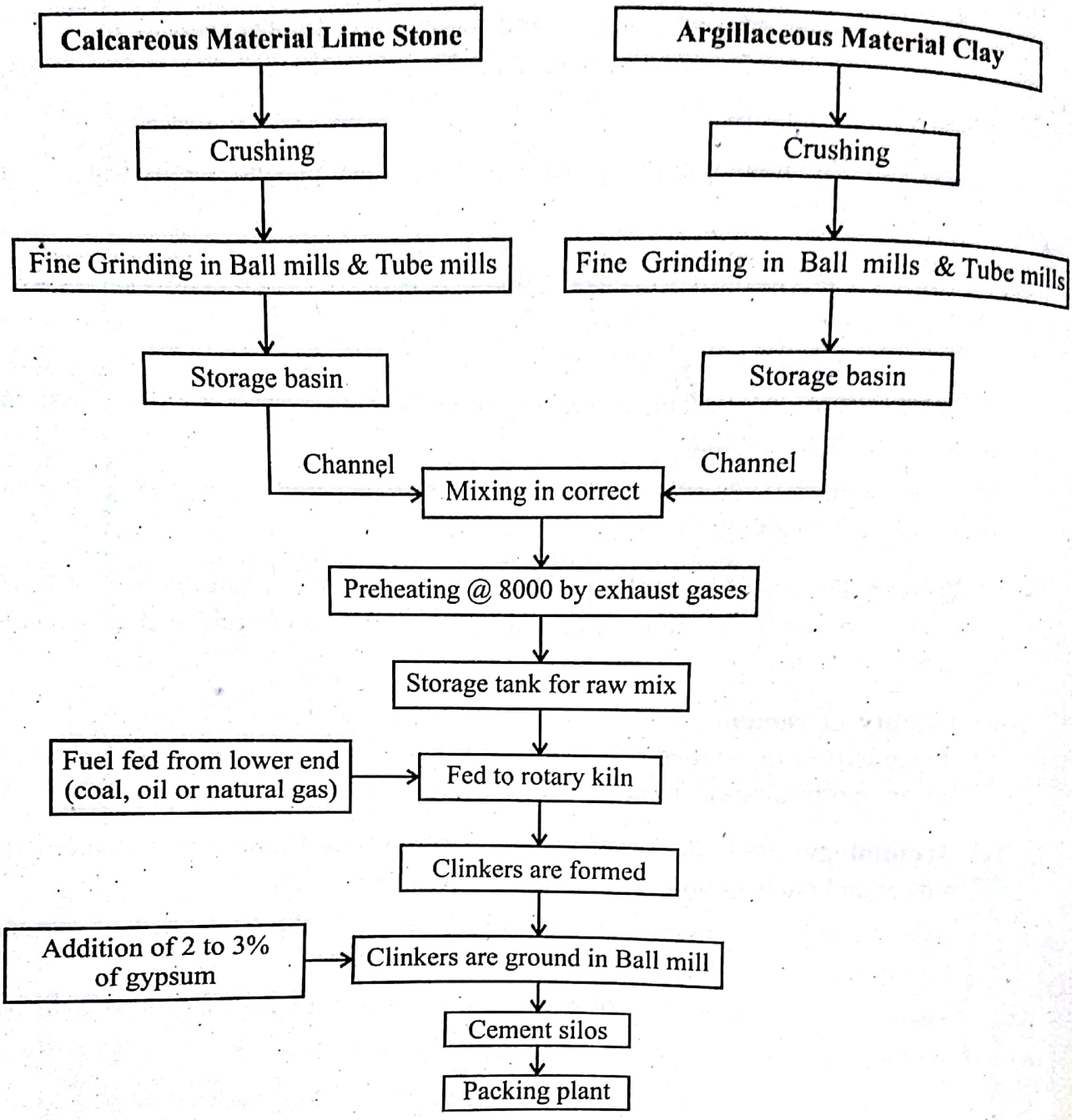

Fig .2.7 Various steps involved in manufacturing of cement using dry process

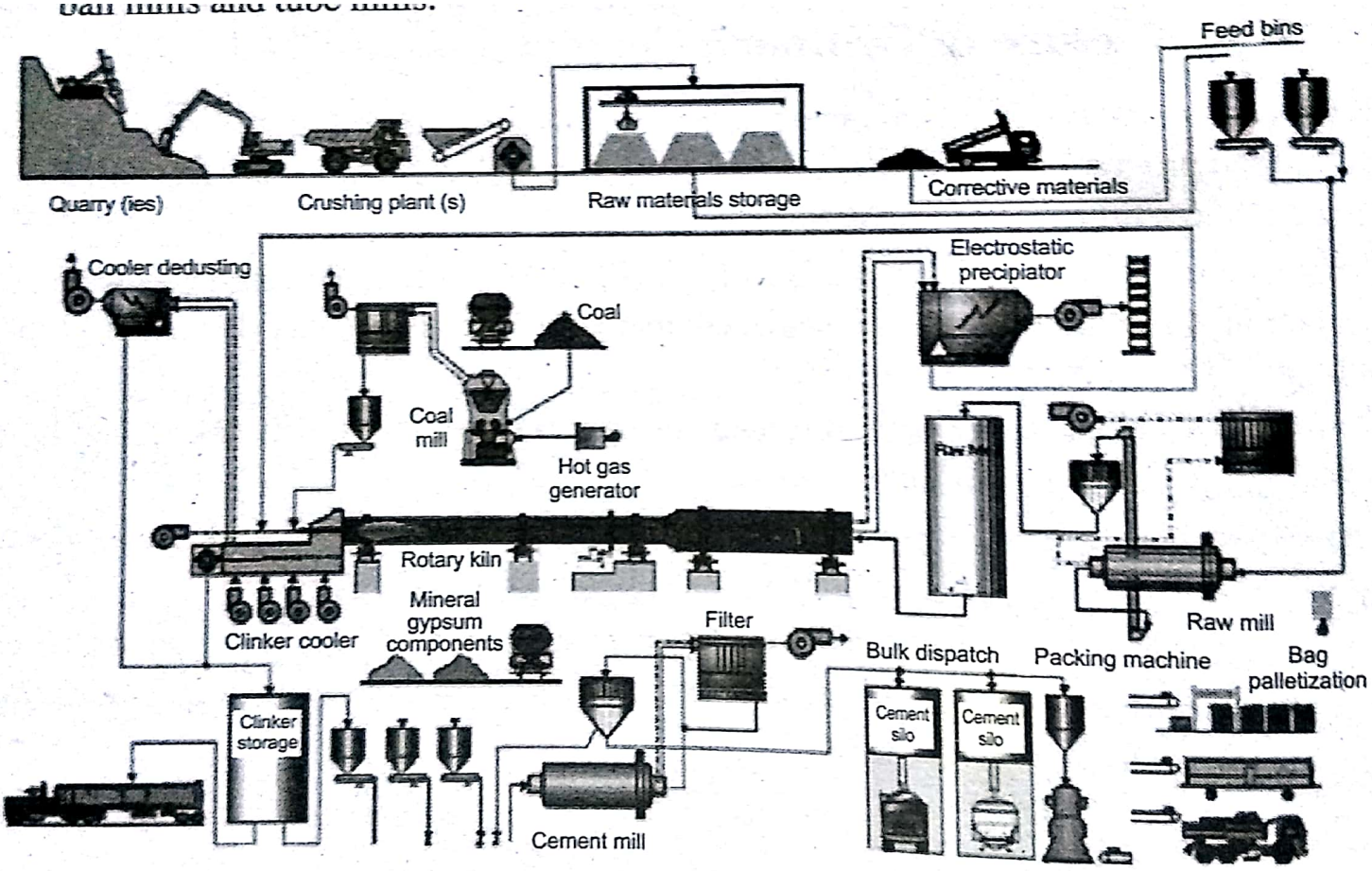

Fig .2.5 Dry process method of cement manufacturing

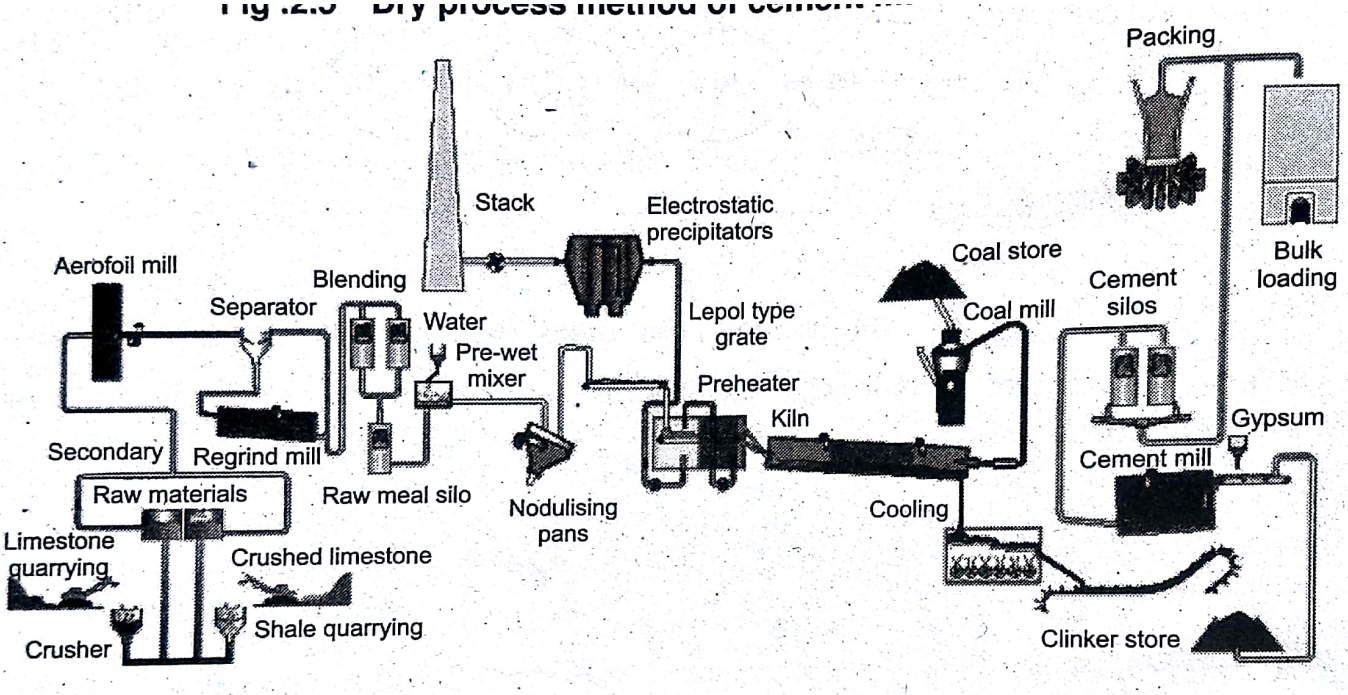

Fig .2.6 Semi dry process method of cement manufacturing

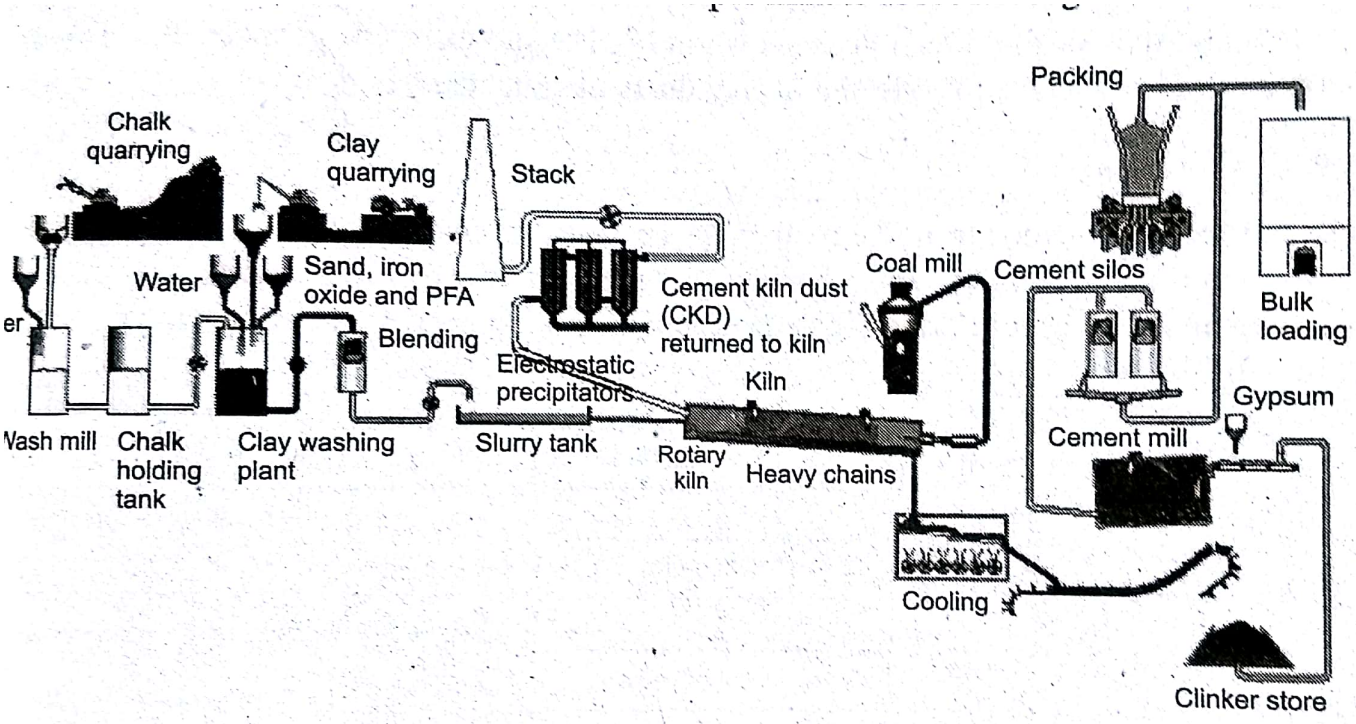

Fig .2.9 Wet process method of cement manufacturing