

Appendix – 3.5

Mass Flow Diagrams

Plant Mass Flow

Plant : Nyumba (Lucky Cement), DR Congo

Proposal No. : 11-73074

Approved date :

Created by : KEKA

Approved by :

Doc. No. :

The 'Plant Mass Flow' shows storage volumes and mass flow rates on a dry basis throughout the plant. Design parameters such as densities and moisture content, composition of raw mix and cement are shown in the plant mass flow.

Plant equipment	Definition		Examples *
Main machinery	Operating rate		450 t/h
Transports operating / design	Operating	Average mass flow rate in dry metric tons per hour [t/h] when plant department is operating at rated output	Operating/Design 450/540 t/h
	Design	Operating + design factor	
Storages	Live** tonnage in dry metric tons		54800 t
Bins	Live** volume is shown in cubic meters [m ³] and in metric tons [t]		350 m ³ 495 t
Feeders	Feeder rates are specified by the design mass flow rate in dry metric tons per hour [t/h] and ratio (control range)		Design rate [t/h] (ratio) 120 t/h (10:1)

* Examples do not represent current mass flow. They are completely arbitrary.

** Live volume/tonnage is defined as "Maximum available volume/tonnage for the process"

All machines, transport equipment, storages, bins and feeders are selected from type ranges.

For guaranteed rates refer to the separate annex, "Guaranteed Performances", in the contract.

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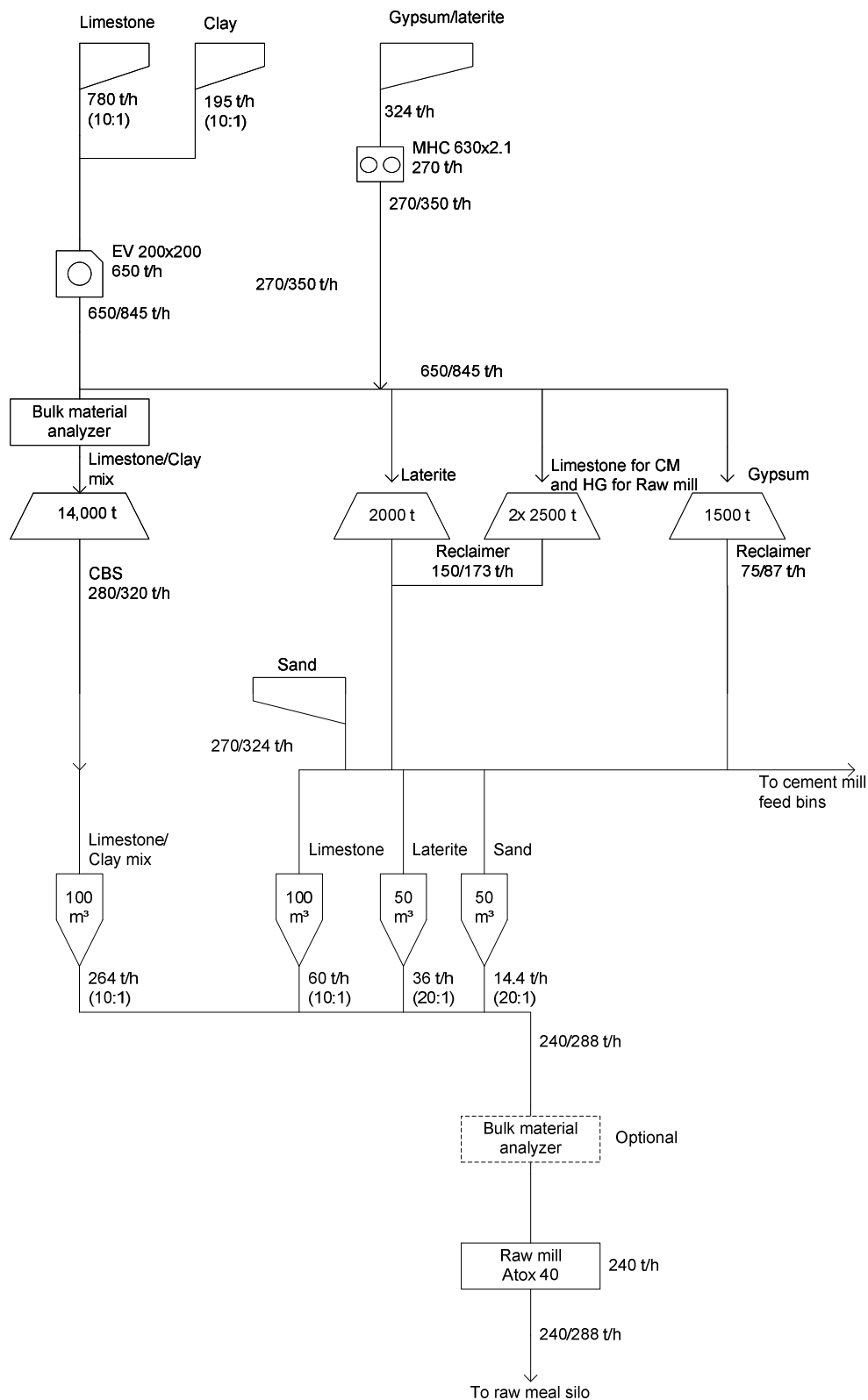
Process design internal information

Made by KEKA

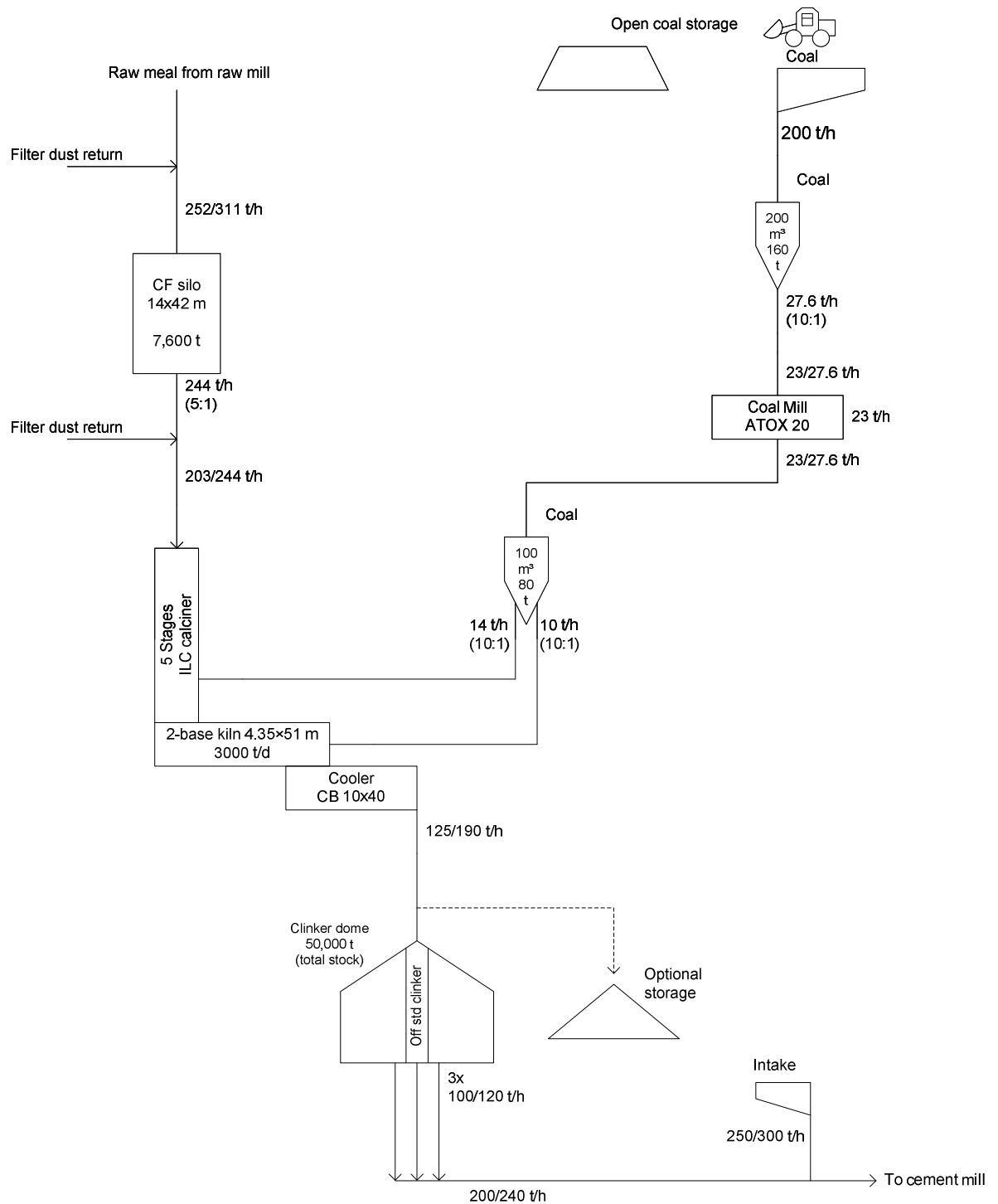
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Raw meal production



Clinker production



Cement production

