

SERIES

# IC

WASTEWATER CLARIFICATION PLANTS



## BUILDING RAW MATERIALS — MINING

Efficient wastewater treatment designed to preserve the environment and valuable water.

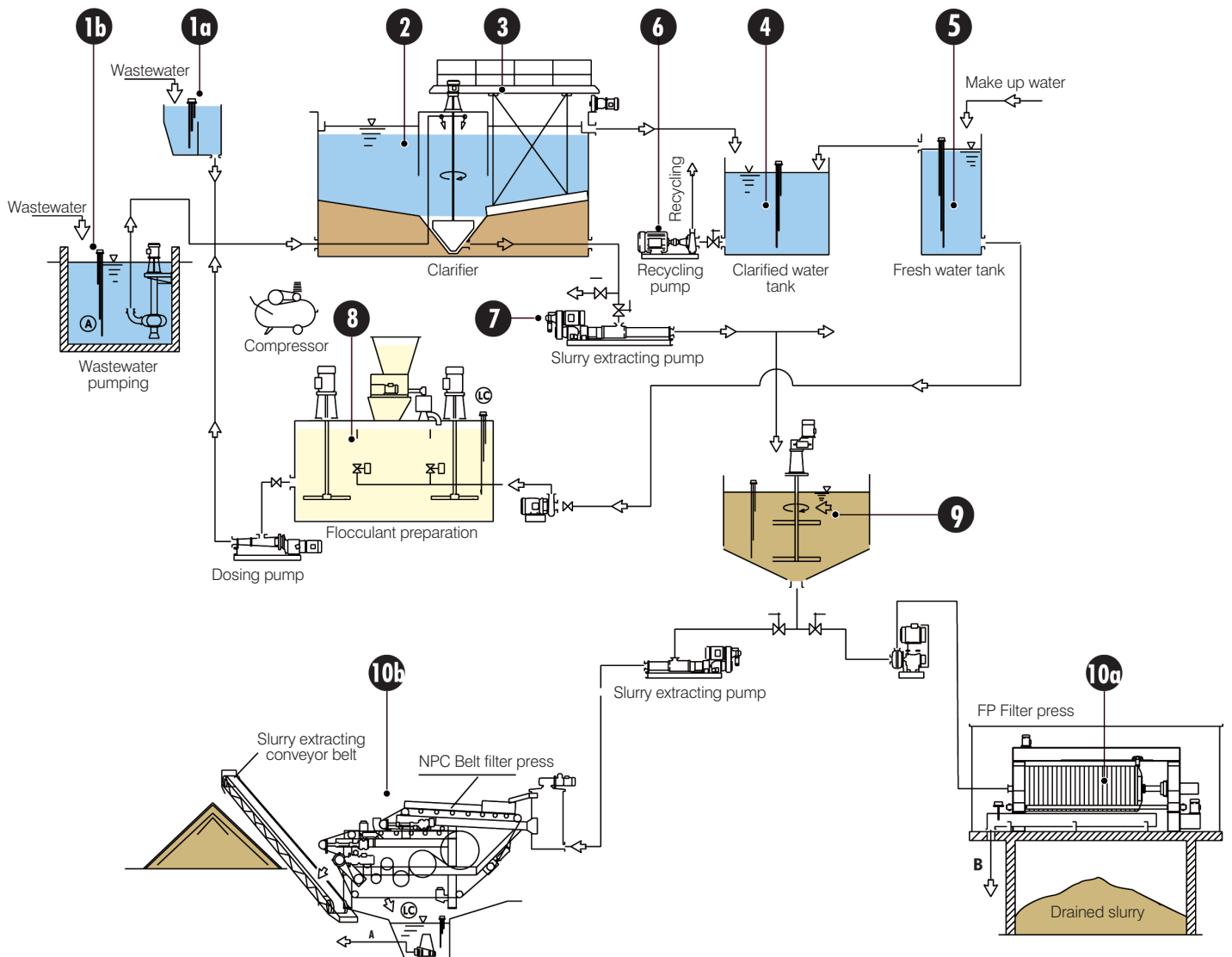
**COMEC** 

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## WASTEWATER CLARIFICATION PLANTS



- 1a Turbid water feeding by gravity
- 1b Turbid water feeding by pump
- 2 Clarifier
- 3 Scraping bridge
- 4 Tank for clarified water

- 5 Fresh water tank
- 6 Recycling pump for clarified water
- 7 Slurry extracting pump
- 8 Flocculant preparation and dosing system
- 9 Slurry collecting and homogenisation tank

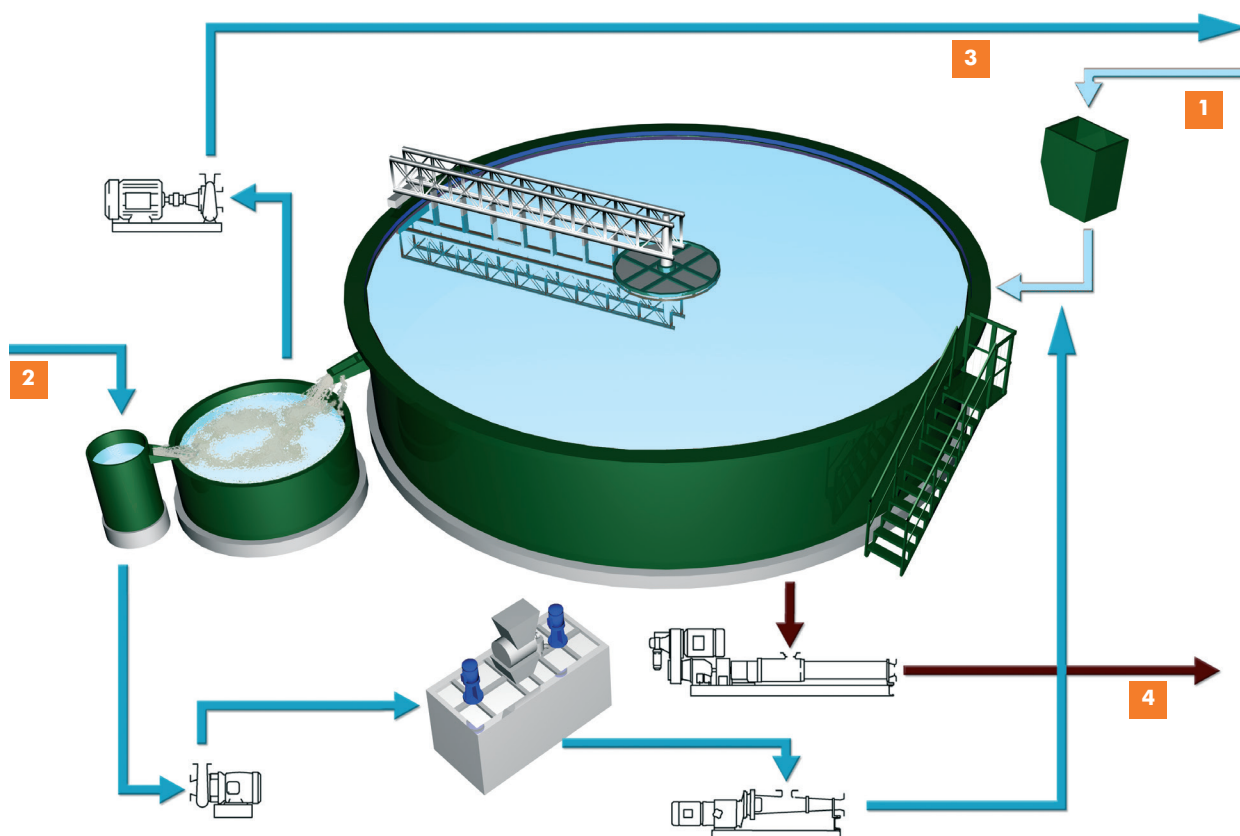
- 10a Slurry dewatering with plate filter press
- 10b Slurry dewatering with belt filter press



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1 Feeding from the washing plant

2 Feeding with fresh water

3 To the washing plant

4 Slurry extraction

Technical data							
Type	Maximum flow rate l/min	Diam. of the clarifier ø m	Clarifier height m	Plant dimensions m x m	Power requirement		
					Clarifying plant kW	Turbid water feeding pump kW	Recycling pump for clarified water kW
IC 80	3000	8	3,80	9x16	13,5	18,5	22 / 30
IC 100	4000	10	4,10	12x16	15	22	37 / 45
IC 120	6000	12	4,26	13x20	19	37	45 / 55
IC 140	7500	14	4,80	15x23	26,5	45	55 / 75
IC 160	9000	16	4,95	17x25	30	55	75 / 90
IC 180	11500	18	5,00	19x26	32,5	37x2	45x2 / 55x2
IC 200	13500	20	5,10	25x32	40	55x2	55x2 / 75x2





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## TASK

The service water generated for the wet processing of raw materials cannot be drained into the ground untreated. Efficient treatment preserves not only the environment but also makes allowance for the scarcity of water in many regions.

## SOLUTION

The slurry arising from the wet processing of aggregates are conveyed by gravity or pumps into the clarifier. In the connecting pipe to the clarifier, a polyelectrolyte flocculant is added to the slurry, triggering the agglomeration of the fine particles. In the centre of the clarifier the sedimentation of the fine particles begins. These settle on the bottom and are carried by the scrapers of the scraping bridge to the central sump. From there, the thickened slurry is carried by a speed-controlled single-screw pump into the slurry collection tank or to the dewatering plant. The clarified water rises to the surface and flows into a collecting basin, from which the processing plant is again supplied with water.

## BENEFIT

Comec-Binder clarification plants reduce the environmental impact of building raw materials processing to a minimum.



## COLOUR

COMEC offers the opportunity to customize both your equipment and production lines with your desired colours, in order to support your own corporate design.

Features and sizes are not binding and Comec-Binder S.r.l. reserves to effect modifications or improvements for commercial and technical reasons at any moment and without notice.