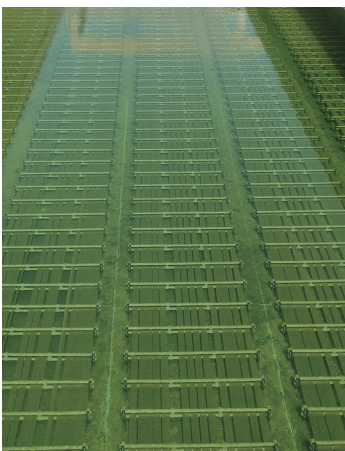
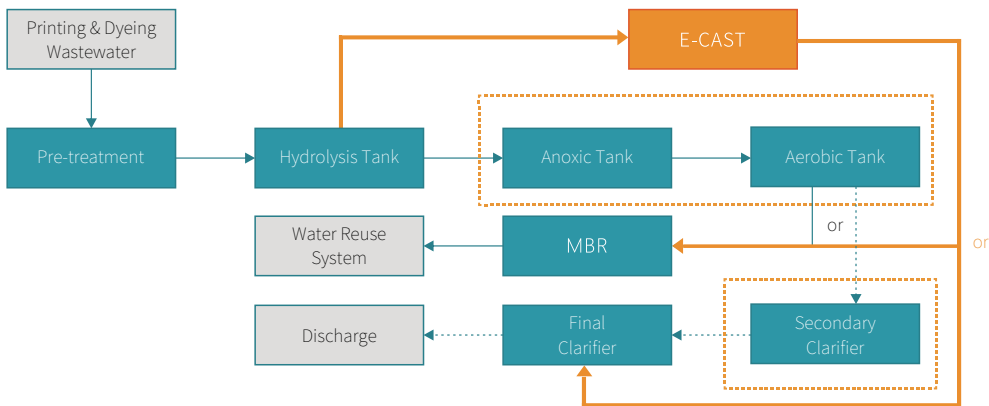




# E-CAST System

## Enhanced-Cyclic Activated Sludge Technology

The E-Cast System, a biological system by using the activated sludge technology, has been improved by Keysino. This process is characterized by high efficiency aeration system, special integrated sedimentation, air lift sludge reflux system, precise dissolved oxygen control, and enhanced denitrification function.



### Advantages:

- 1.Keysino's Patent Technology
- 2.Only Blower as Power Source
- 3.Diffusers Online Replacement
- 4.No Recirculation Pump Required
- 5.COD Removal Efficiency Increase 30%+;
- 6.Sludge Disposal Reduce 20%+;
- 7.Electrical Consumption Less 0.35kwh/m<sup>3</sup>;
- 8.Energy Saving 20% approx;
- 9.Oxygen Utilization Efficiency Increase 30%+;
- 10.Less Footprint 30% approx.



## Project References

Capacity: 20,000 m<sup>3</sup>/d  
Water Source: Dyeing waste water  
Location: Pakistan  
Process: EQ – PST- ECAST-MBR



Parameter	Inlet	Outlet	Standard
COD	1800	120	150
SS	300	<1	50
NH <sub>3</sub> -N	30	3	10
Colour (Pt-Co)	5000	150	200



Capacity: 5,000 m<sup>3</sup>/d  
Water Source: Dyeing waste water  
Location: JiangSu - China  
Process: EQ-Hydrolysis-ECAST-MBR



Parameter	Inlet	Reuse <sup>(50%)</sup>	Standard
COD	1200	10	200
TDS	3000	150	-
NH <sub>3</sub> -N	40	1	20
Colour (Dilution)	1500	5	80



Capacity: 7,200 m<sup>3</sup>/d  
Water Source: Dyeing waste water  
Location: Ethiopia  
Process: EQ-DAF-ECAST-MBR



Parameter	Inlet	Outlet	Standard
COD	800	60	150
SS	250	<1	50
NH <sub>3</sub> -N	20	3	10
Colour (Pt-Co)	1200	20	150

