

Technology by :



SYNERGY ECOTECH
A MEMBER COMPANY OF YKL GROUP

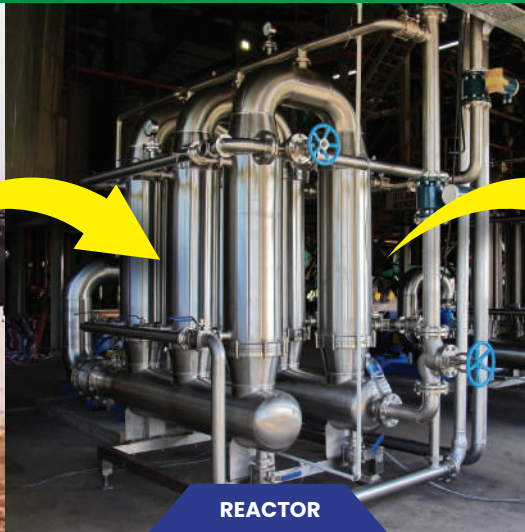
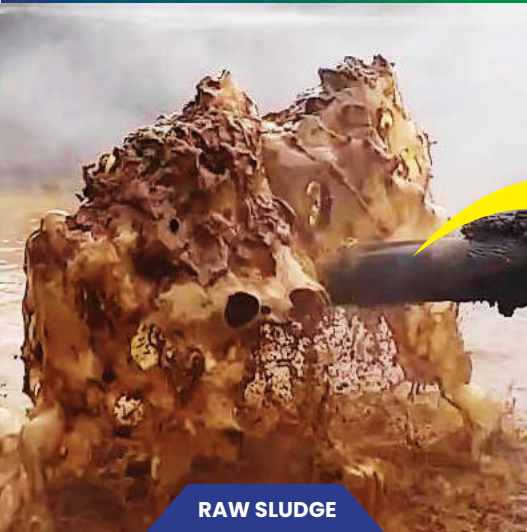
Partnering with :



YKL GROUP
OF COMPANIES

SROARS

SOLIDS REMOVAL & OIL RECOVERY SYSTEM



- ▶ Methane Avoidance
- ▶ Reduce High Chloride Water Phase of Raw Sludge

A PROFIT GENERATING SYSTEM



PATENTED GREEN TECHNOLOGY

SRORS | A PURE MECHANICAL SYSTEM

In compliance with the stringent government regulation for discharge especially BOD20, Solids Removal & Oil Recovery System (SRORS) is introduced to the market. SRORS is a pure mechanical system consisting of a Aqua Eco Filtration Unit that concentrates the discharge and a 3-phase decanter that removes solids and recovers oil from the thickened sludge without the use of any chemicals.



HOW SRORS BENEFITS YOUR MILL



01

Remove Suspended Solids

Filtrate with negligible oil and suspended solids discharged to pond for more efficient treatment



02

Oil Recovery

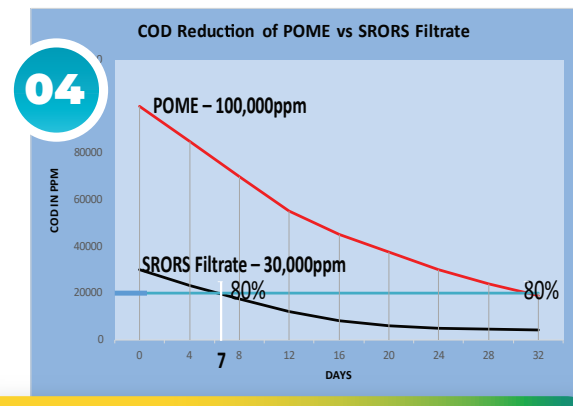
OER increase by 0.2-0.5%, no sludge oil in ponds, extra profit up to 25% & ROI within 3-5 years.



03

Reduce Desludging

No suspended solids discharged to pond. Cost saving in pond desludging.



04

Methane Avoidance

(MPOB's requirement to reduce COD by 80-90%)

SRORS filtration with 7 days aeration in pond reduced COD by > 80% Thus methane avoidance facility is achieved



NO ODOUR

Foul smell from pond is removed when 1st anaerobic pond is aerated for methane avoidance.



REDUCE

Chloride Contamination in Oil

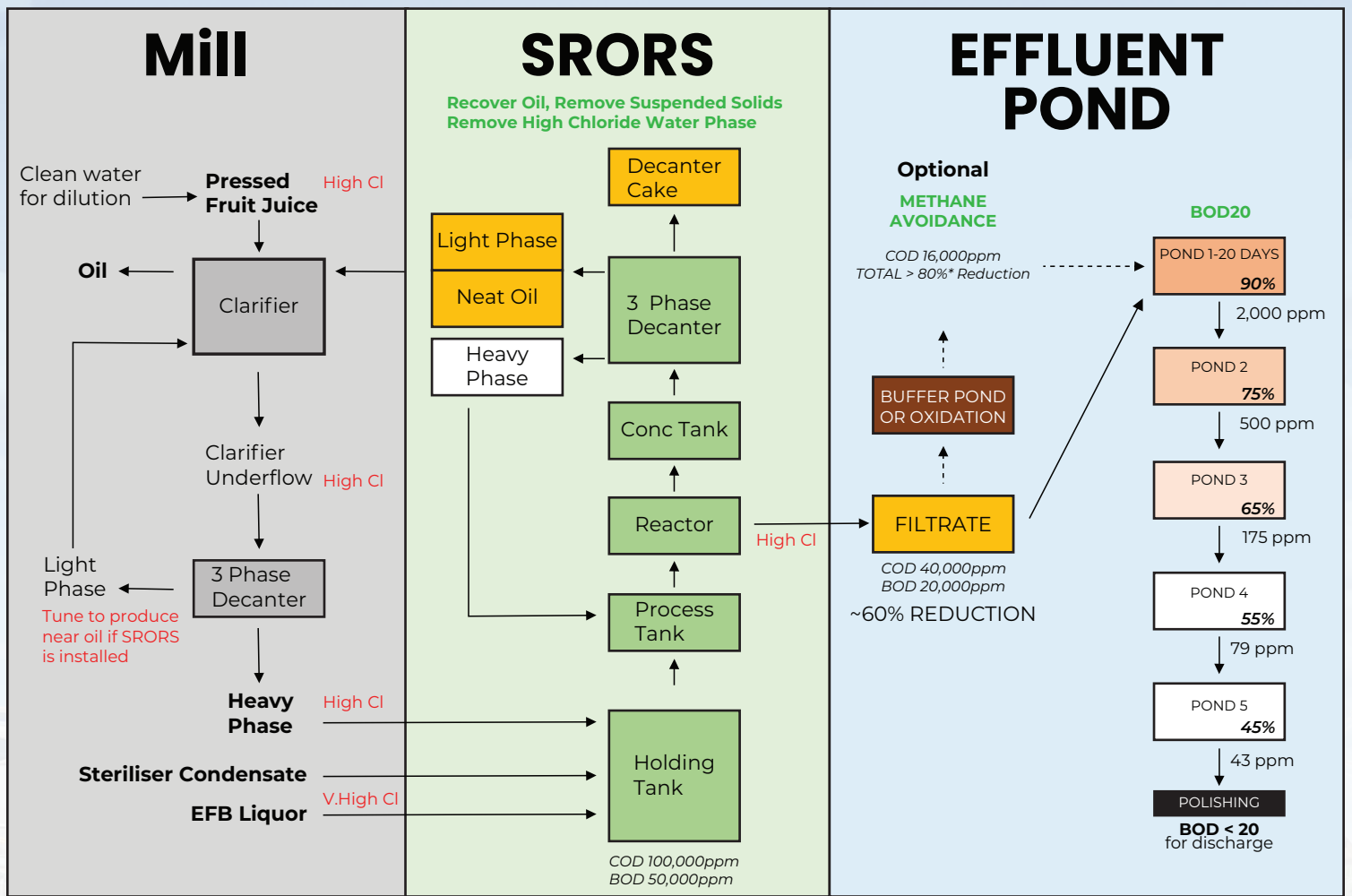
- Remove high chloride water phase of sludge
- Prevent cross contamination of chloride to oil during processing

Reduce COD / BOD Discharge to Pond

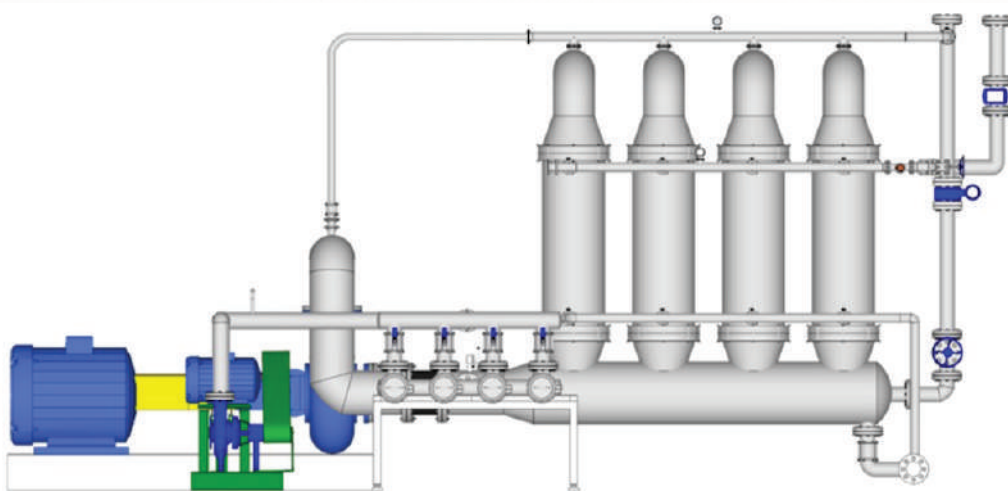
FILTRATE TEST RESULTS		
Type of Test	POME	FILTRATE
pH Value	4.73	4.69
BOD (3 days @30° C), mg/L	48,100	13,410
COD , mg/L	78,000	19,500
NH3-N, mg/L	70	12
Total N, mg/L	590	28
Oil & Grease, mg/L	13,812	3
Suspended Solids, mg/L	24,600	31

* DISCLAIMER : This figure provide for general information purpose only.

Reduce COD / BOD
by about 60%.



REACTOR FILTRATION | FLOW CHART



CONCENTRATE | TO PROCESS BY DECANTER

FEED TO CONCENTRATE TANK, DECANTER FEED TANK, AND THEN DECANTER

FILTRATE | TO POND 60% COD/BOD REDUCTION



FINISHED PRODUCT FROM SRORS FILTRATION

RAW SLUDGE | FROM MILL