

CAPITAL APPROPRIATION REQUEST

PROJECT NAME	RO Water Transfer Pipeline	DEPARTMENT	Production
COMPANY	PT Zeus Kimiatama Indonesia	TYPE OF INVESTMENT	Process Improvement
LOCATION	Jababeka I	DATE	15-May-25

PREPARED BY		REVIEWED BY	
Project Coordinator	Aulia Dwi Cahyani		Sign
Finance/ Accounting	Zainal Arifin		Sign
Technical Project Manager	Arry Rahmat		Sign
Capex Coordinator	Rindu Wahono		Sign

PROJECT DETAIL

Justification of the project, main objectives and assumptions

Currently, Reverse Osmosis (RO) water is transferred manually from the utility facility to the production area using Intermediate Bulk Container (IBC) tanks. As production activities increase, the demand for RO water has also significantly risen. Manual transfer using IBC tanks is time-consuming, labor-intensive, and poses risks such as contamination and spillage.

To improve the efficiency and reliability of the RO water distribution system, we propose to build a dedicated RO water transfer pipeline from the utility facility directly to the production facility.

Scope definition of proposed project

Piping & Instrument

Breakdown of CAR Amount

Item	Currency	Cost	Rate	Cost in IDR
Piping & Accessories	IDR	30,000,000.00	1.00	IDR 30,000,000.00
Instrument (control)	IDR	10,000,000.00	1.00	IDR 10,000,000.00
Mass Flow Meter	RMB	21,770.00	2287.16	IDR 49,791,473.20
Subtotal				IDR 89,791,473.20
Contingency 10%				IDR 8,979,147.32
Total				IDR 98,770,620.52

Rejected Alternatives

Add More IBC Tanks and Forklift Support → Still labor-intensive, Potential for error and contamination remains high

Project Schedule

2 month after approval

APPROVAL

OPERATION DIRECTOR	Indra Gunawan		Sign	VICE CEO	Indra Gunawan		Sign
FINANCE DIRECTOR	Evirna Listy		Sign				