

Biological Process Stability Report

ABC INDUSTRIES LTD.

Plant Capacity : 500KLD

From : 27 May 2026 16:25

To : 28 May 2026 16:25

Biological Process KPIs

Average DO	Average ORP	Average RAS Flow	Average WAS Flow	Average Media Fill
3.01 mg/L	20.93 mg/L	14.62 m³/h	4.93 m³/h	45.07 %

MBBR Reactor Biological Performance

Parameter	Minimum	Average	Maximum
DO	0	3.01 mg/L	5.95 mg/L
Media Fill	20.74 %	45.07 %	69.17 %
ORP	-290.78 mg/L	20.93 mg/L	294.01 mg/L
Aeration Tank pH	5.07	7.1	8.97
Temperature	15.05 °C	30.64 °C	44.73 °C

Sludge Process Monitoring

Parameter	Minimum	Average	Maximum
Sludge Blanket Level	0.16 m³	9.17 m³	19.82 m³
Clarifier Turbidity	0.05NTU	9.76NTU	19.77NTU
RAS Flow	0.18 m³/h	14.62 m³/h	29.89 m³/h
WAS Flow	0.25 m³/h	4.93 m³/h	9.99 m³/h

Biological Treatment Efficiency

Parameter	Inlet Average	Outlet Average	Removal Efficiency
BOD	329.99 mg/L	14.4 mg/L	94.3 %
COD	666.83 mg/L	38.36 mg/L	91.57 %
Ammonia	38.75 mg/L	4.64 mg/L	61.01 %
TSS	401.55 mg/L	13.08 mg/L	94.7 %