

STP / ETP DIAGNOSTIC CHECKLIST

Rapid Site Assessment

Plant Overview & Influent Assessment

Inspection Item	Observation	Remarks
Plant Type		
Industry/Application		
Design Capacity		
Actual Flow		
Peak Flow		
Year of Commissioning		
Process Technology		
Current Utilisation		
Influent pH		
Influent COD		
Influent BOD		
Influent TSS		
Oil & Grease		
Ammonia/Nitrogen		
Production Increase		
Bypass During Peak Flow		
Drawings Available		
Operator Availability		

Notes:

Process Performance & Equipment Health

Inspection Item	Observation	Remarks
Bar Screen		
Grit Chamber		
Oil & Grease Trap		
Equalisation Tank		
Feed Pumps		
Chemical Dosing		
Aeration Performance		
DO		
MLSS		
Sludge Colour		
Foaming		
Filamentous Growth		
Odour		
Settling		
SVI		
Clarifier		
Return Sludge		
Overflow Clarity		

Notes:

Mechanical, Electrical & Instrumentation

Inspection Item	Observation	Remarks
Feed Pumps		
Transfer Pumps		
Sludge Pumps		
Standby Pumps		
Blowers		
Air Distribution		
Diffusers		
Flowmeters		
DO Sensor		
pH Sensor		
Level Transmitters		
Online Analysers		
Calibration		
MCC		
VFD		
Control Panels		
UPS/DG		

Notes:

Performance Validation & Root Cause

Inspection Item	Observation	Remarks
Influent/Effluent COD		
BOD		
TSS		
Oil & Grease		
pH		
Compliance Status		
Chemical Consumption		
Power Consumption		
Sludge Generation		
Operator Practices		
Maintenance Records		
Automation		
Safety		
Housekeeping		
Immediate Actions		
Medium-term Improvements		
Plant Health Score		
Consultant Remarks		

Notes: