

# STEPS OF WATER SYSTEM QUALIFICATION

1. USER REQUIREMENT SPECIFICATION
2. PURCHASE ORDER
3. DESIGN APPROVAL
4. DESIGN QUALIFICATION (PRE-TREATMENT)
5. DESIGN SPECIFICATION (GENERATION)
6. DESIGN SPECIFICATION (STORAGE & DISTRIBUTION)
7. ISOMETRIC DRAWING FOR DIMENSIONS
8. ISOMETRIC DRAWING FOR WELD JOINTS
9. SOP FOR ORBITAL WELDING
10. WELDING OPERATOR TRAINING
11. INSTRUMENT CALIBRATION
12. ARGON GAS USED CERTIFICATES
13. PRINT REPORT OF ORBITAL WELDING
14. SOP FOR BOROSCOPY
15. CERTIFICATE OF VIDEO BOROSCOPE
16. BOROSCOPY REPORT
17. SOP FOR HYDRO TEST OF PIPING
18. HYDRO TEST REPORT
19. SOP FOR DEAD LEG VERIFICATION
20. DEAD LEG VERIFICATION REPORT
21. ISOMETRIC DRAWING FOR SLOPE VERIFICATION
22. SOP FOR SLOPE VERIFICATION
23. SLOPE VERIFICATION REPORTS
24. SOP FOR PASSIVATION
25. PASSIVATION REPORT
26. INSTALLATION QUALIFICATION (PRE-TREATMENT)
27. INSTALLATION QUALIFICATION (GENERATION)
28. INSTALLATION QUALIFICATION (STORAGE & DISTRIBUTION)
29. OPERATIONAL QUALIFICATION (PRE-TREATMENT)
30. ALARM REPORT (PRE-TREATMENT)
31. OPERATIONAL QUALIFICATION (GENERATION)
32. ALARM REPORTS (GENERATION)
33. OPERATIONAL QUALIFICATION (DISTRIBUTION)
34. ALARM REPORTS (DISTRIBUTION)
35. PEAK LOAD VERIFICATION
36. SOP FOR OPERATION & MAINTENANCE OF PRE-TREATMENT
37. SOP FOR OPERATION & MAINTENANCE OF PW GENERATION PLANT
38. SOP FOR OPERATION & MAINTENANCE OF PW STORAGE & DISTRIBUTION
39. PERFORMANCE QUALIFICATION PROTOCOL
40. PERFORMANCE QUALIFICATION REPORT
41. Phase I (14 Days)
42. Phase II (14 Days)
43. Phase III (365 Days)
44. ALERT & ACTION LIMIT
45. CONTINUOUS MONITORING