

RED BLUFF DIVERSION DAM - PUMP DEMONSTRATION PROJECT

VALUE ENGINEERING STUDY

COST MODEL

COMPONENT/PERCENT PROJECT COST	PROJECT COST PROPORTION
I. STRUCTURES (24.9%)	
II. PUMPS (22.6%)	
A. ARCHIMEDES (18.9%)	
B. HELICAL (3.8%)	
III. MECHANICAL/MISL METAL (16.6%)	
A. FISH HANDLING/CARE (14.1%)	
B. PLANT SVC/OTHER (2.5%)	
IV. EARTHWORK ABOUT STRUCT (9.1%)	
A. EXCAVATION (4.3%)	
B. BACKFILL (3.1%)	
C. YARDWORK/MISCL (1.7%)	
V. ELECTRICAL (7.7%)	
A. CONTROLS (4.8%)	
B. PLANT SERVICE (2.9%)	
VI. COFFERDAM (3.5%)	
A. SHEETPILING (3.2%)	
B. EARTHFILL (0.3%)	
VII. PIPING (3.4%)	
A. DELIVERY (3.2%)	
B. BYPASS (0.2%)	
VIII. RIVER TRAINING WALL (2.5%)	
A. SHEETPILING (1.3%)	
B. EARTHWORK (1.2%)	
IX. MOBILIZATION/PREP (4.9%)	
X. DEWATERING (4.7%)	