

Table 5.4 Typical Equipment Requirements

CONSTRUCTION TASK	EQUIPMENT																						
	Lifting/Drilling							Earthwork					Concrete Works			Assembling/Testing							
	Drilling Rig	Dredger	Tug Boat/Motor Boat	Barge/Derrick Barge	Piling Barge with Hydraulic Hammer	Boring Machine	Tower Crane	Mobile Crane	Bulldozer	Pneumatic Roller	Backactor	Backactor mounted with Breaker	Dump Truck/Lorry	Grader	Concrete Agitator	Concrete Pumps	Air Compressor	Vibrator	Bar Bender Machine	Electric Saw	Welding/Cutting Machine	Grinding Machine	Pumps
Contract Award	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mobilisation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Land Based Works																							
Ground Investigation	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Earthwork																							
Site Clearance	0	0	0	0	0	0	0	0	2	0	3	1	4	0	0	0	0	0	0	0	0	0	0
Soil Compaction	0	0	0	0	0	0	0	0	0	1	0	0	4	0	0	0	0	0	0	0	0	0	0
Tank Construction																							
Foundation (Ring Beam) Construction																							
Excavation	0	0	0	0	0	0	0	3	0	0	2	0	4	0	0	0	0	0	0	0	0	0	0
Steel Fixing & Formwork	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
Concreting	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3	0	2	2	0	0	0	0	0
Tank Erection																							
Steel Panel Fabrication*	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Panel Assembling	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	4	4	0
Tank Inspection & Testing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ancillary Facilities Installation																							
Excavation	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Steel Fixing & Formwork	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2	0	0	0	0	0
Installation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0
Testing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Commissioning	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pipe, Drainage & Utilities Installation																							
Excavation	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0
Casting Concrete (Manholes)	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	1	0	1	0	0	0
Pipe Installation & Utilities Laying	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Backfilling and Soil Compression	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Testing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Roadwork																							
Sub-base	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0
Paving	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	2	2	0	1	0	0	0
Office Building Construction																							
Foundation (Raft) Construction																							
Excavation	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0
Formwork	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Steel Fixing	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Concreting	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	2	2	0	0	0	0	0
Superstructures (Wall, Beam, Column & Slab)																							
Formwork	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Steel Fixing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Casting Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	2	2	0	0	0	0	0
Marine Works																							
Ground Investigation	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dredging	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pile Construction																							
Circular Pile driven by Precussive Method	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0
Load test	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dolphins Construction																							
Formwork	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Steel Fixing	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Casting Concrete	0	0	2	2	0	0	0	0	0	0	0	0	0	0	4	1	2	2	0	0	0	0	0
Decking Construction																							
Formwork	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Steel Fixing	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Concreting (Prefabrication Yard)	0	0	2	2	0	0	0	0	0	0	0	0	0	0	4	1	2	2	0	0	0	0	0
Erection of Prefabricated Member	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Casting Concrete (In-situ)	0	0	2	2	0	0	0	0	0	0	0	0	0	0	4	1	2	2	0	0	0	0	0
Installation of Plant	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0
Testing	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Commissioning	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Underwater Works																							
Ground Investigation	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dredging	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pipe Laying	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Backfilling	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Testing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Commissioning	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0