

Physical Resources Costing Form

Instructions to the Assessor

The candidate will review the construction drawings and specifications from *Task 1*. They will then use this *Physical Resources Costing Form* to document the required physical resources, their prices, and their costs in completing the building.

Instructions to the Candidate

Use this *Physical Resources Costing Form* to document the required physical resources, their prices, and their costs in completing the building.

Ensure you have completed all fields in this form before submitting it to your assessor.

PHYSICAL RESOURCES COSTING FORM	
Participant name	Rex Henderson
Date	14/05/2024

Details of the Building and Construction Project

Name of building and construction project	Rockpool Pelican Waters
Type of project	☐ Commercial building
State/territory	Queensland

Section 1 – Physical Resources Required

Equipment <i>(Add rows as needed to account for all equipment needed in completing the building)</i>
Scaffold, loading bays, lifts, safety equipment, compactors, survey equipment, concrete mixer,
Screeds, trowels, formwork system, shoring systems, props and jacks, drills, saws, nail guns, grinders,
Sanders, levels, theodolites, jackhammer, hard hats, gloves and glasses

Machinery <i>(Add rows as needed to account for all equipment needed in completing the building)</i>
Excavator, Piling rig, dump trucks, mobile crane, tower crane, material hoist, scissor lifts, bob cat
Smooth drum roller, forklift, trencher, industrial vacuum, threading machine, floor sweeper
Boom lift, generators, concrete pumps and water truck.

Other Plant for Hire <i>(Add rows as needed to account for all equipment needed in completing the building)</i>
HVAC equipment, jackhammer, concrete cutter, water barriers, traffic control equipment, BBQ,
Water bubblers, first aid equipment, site sheds, container, security cameras and sirens.
Fire extinguishers, tables and chairs.

Section 2 – Physical Resource Usage Details

(Duplicate tables to account for all equipment, machinery, and other plant for hire identified)

Equipment: Tower crane	
Limitations <i>(Add rows as needed to account for all limitations of equipment)</i>	
Lifting capacity 4t at 40m, Boom length is 40m,	
Electric Hammerhead must have power or generator to site.	
Winds speeds of 40ms will stop lifting capabilities.	
Conditions of Use <i>(Add rows as needed to account for all conditions of use of equipment)</i>	
Operator must be licenced.	
Radio communication between driver and dogman, OHS documentation	
Third party pre and post erection safety inspections	
Operational Costs <i>(Add rows as needed to account for all operational costs of use of equipment)</i>	
Associated Cost	Cost
Brick cage	\$50 per week
Concrete kibble	Included in crane hire
Lifting chains 2 x 10mm and 13mm	\$50 per week
Schedule of Usage <i>(Add rows as needed to account for all instances of using equipment)</i>	
Date	Time
29-week duration onsite	Total 29 weeks
Allow for 2-week contingency	Total 33 weeks
Price of Hiring	649,485.00
Price of Transporting to Construction Site	12,000.00

Machinery: Hoist for materials and man	
Limitations <i>(Add rows as needed to account for all limitations of machinery)</i>	
20-man load capacity.	
3 t load capacity materials, Wind at 65m/s will stop hoist.	
Installed after concrete deck is poured so never capable of going to top deck.	
Conditions of Use <i>(Add rows as needed to account for all conditions of use of machinery)</i>	
Operator to diver hoist at all times must be licenced.	
Maintenance check to be undertaken daily.	
Insurances need to be in place	
Operational Costs <i>(Add rows as needed to account for all operational costs of use of machinery)</i>	
Associated Cost	Cost
Hoist erection	\$14,550
Hoist dismantle	\$8,130
Base design and certification	\$2,800
Schedule of Usage <i>(Add rows as needed to account for all instances of using machinery)</i>	
Date	Time
24 weeks	Total 24 weeks
2 weeks delay	Total 26 weeks
Price of Hiring	\$29,400
Price of Transporting to Construction Site	\$17,920

Other Plant for Hire: Loading Bays	
Limitations <i>(Add rows as needed to account for all limitations of other plant for hire)</i>	
3t load capability	
Installed only after concrete reaches full Mpa	
Back propping down to ground floor is needed to transfer load	
Conditions of Use <i>(Add rows as needed to account for all conditions of use of other plant for hire)</i>	
Installed by licenced riggers	
Retractable loading bays must be operated by riggers or dogman on site	
Operational Costs <i>(Add rows as needed to account for all operational costs of use of other plant for hire)</i>	
Associated Cost	Cost
Delay contingency	\$880
Erect and dismantle	\$2,880
Transport	\$2,400
Schedule of Usage <i>(Add rows as needed to account for all instances of using other plant for hire)</i>	
Date	Time
2 each level, 5 level building	
100 weeks in total allowed for.	\$220 per week
Relocating from lower to upper levels	
Price of Hiring	\$22,000
Price of Transporting to Construction Site	\$2,400

END OF PHYSICAL RESOURCES COSTING FORM