

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	Tyanna Childs
Date	14/02/2024

Details of the Building and Construction Project

Name of building and construction project	M1 Connect – 120 Siganto Drive Helensvale
Type of project	☐ Residential building ☒ 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>
Pressure washer
Forklift
Concrete Mower

Machinery <i>(Add rows as needed to account for all equipment needed in completing the building)</i>
Scissor Lift
Crane
Concrete Boom Pump

Other Plant for Hire <i>(Add rows as needed to account for all equipment needed in completing the building)</i>
Security Cameras
Temporary Fencing & Access Gates
Skip bins

Section 2 – Physical Resource Usage Details

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

Equipment: Pressure washer	
Limitations <i>(Add rows as needed to account for all limitations of equipment)</i>	
Material / surface Compatibility	
Limited reach	
Water supply requirements.	
Conditions of Use <i>(Add rows as needed to account for all conditions of use of equipment)</i>	
Personal Protective Equipment MUST be worn.	
Inspect the Pressure washer before use for any damage, leaks or defects.	
Make sure to use the correct pressure setting to match the cleaning requirement and surface.	
Read the manual and instructions for the use of the drill.	
Operational Costs <i>(Add rows as needed to account for all operational costs of use of equipment)</i>	
Associated Cost	Cost
Hire	79.70 per day
Water	\$3.38per Kilolitre (400L used per hour with the pressure washer)
Fuel	\$1.94 per litre (roughly 4L required an hour).
Schedule of Usage <i>(Add rows as needed to account for all instances of using equipment)</i>	
Date	Time
15/10/2024	8 Hours
16/10/2024	8 Hours
17/10/2024	6.5 Hours
Price of Hiring	Total - \$239.10
Price of Transporting to Construction Site	Nil – Worker collected it on the way to site

Equipment: Forklift	
Limitations <i>(Add rows as needed to account for all limitations of equipment)</i>	
Only people with high-risk work licence can operate a forklift.	
Weight/load limits	
Height & reach limitations	
Terrain/surface conditions	
Conditions of Use <i>(Add rows as needed to account for all conditions of use of equipment)</i>	
MUST have a high-risk work licence and be at least 18 years old.	
Pre-operations inspection.	
Adhere to Work Safe QLD and Safe Work Australia conditions and guidelines for the use of a forklift.	
Do not exceed the weight/load capacity.	
Operational Costs <i>(Add rows as needed to account for all operational costs of use of equipment)</i>	
Associated Cost	Cost
Forklift Hire	\$155.00 per week
Fuel	\$1.94 per litre (3L per hour)
Insurance	\$65.00
Schedule of Usage <i>(Add rows as needed to account for all instances of using equipment)</i>	
Date	Time
A forklift is required for roughly 80% of the project from 01/11/2023 – 14/08/2023	80% of the project – 9.5 Months (41 weeks)
Price of Hiring	\$155.00 x 41 weeks = \$6,355.00
Price of Transporting to Construction Site	\$80.00 (delivery and pickup)

Equipment: Concrete Mower	
Limitations <i>(Add rows as needed to account for all limitations of equipment)</i>	
Limitations to the depth of cut	
Can only be used on concrete surfaces (do not use on metal or wood as it can damage the blade)	
Power Source, dependant on the model.	
Conditions of Use <i>(Add rows as needed to account for all conditions of use of equipment)</i>	
Appropriate training for operators.	
Personal protective Equipment is to be worn by the operators.	
Inspection of equipment prior to each use	
Make sure to prepare the surface of the concrete so that no debris or loose materials interfere with the operation.	
Start up and shut down procedures must be adhered to. Make sure to read and understand the operator Manual.	
Operational Costs <i>(Add rows as needed to account for all operational costs of use of equipment)</i>	
Associated Cost	Cost
Hire	283.65 per week
Grinding discs hire	\$189.00 per week
Fuel	\$1.94 per litre (3L per hour)
Schedule of Usage <i>(Add rows as needed to account for all instances of using equipment)</i>	
Date	Time
10/10/2024 – 24/10/2024	8:00am – 4:00pm x 14 days
Price of Hiring	\$283.65 x 2 weeks = \$567.30
Price of Transporting to Construction Site	Nil – Worker collected it on the way to site

Machinery: Scissor Lift	
Limitations <i>(Add rows as needed to account for all limitations of machinery)</i>	
Height and reach limitations	
Weight/load capacity	
Wind – High winds can impact the stability of the scissor lift.	
Conditions of Use <i>(Add rows as needed to account for all conditions of use of machinery)</i>	
Operator must have completed EWP training and hold a EWP operator ticket.	
Operator must make sure to read the operators manual and familiarize themselves with the operation procedures and safety guidelines.	
Pre-operational inspections must be carried out.	
Operational Costs <i>(Add rows as needed to account for all operational costs of use of machinery)</i>	
Associated Cost	Cost
Hire	\$204.00 per day
Fuel	\$2.04 per L (3L per hour)
Schedule of Usage <i>(Add rows as needed to account for all instances of using machinery)</i>	
Date	Time
08/07/2024	9 Hours
09/07/2024	9 Hours
10/07/2024	8 Hours
Price of Hiring	Total - \$612.00
Price of Transporting to Construction Site	\$150.00 delivery and pick up

Machinery: Crane	
Limitations <i>(Add rows as needed to account for all limitations of machinery)</i>	
Height restrictions and boom length/reach.	
Weight/load capacity	
Wind – High winds can impact the stability of the Crane	
Conditions of Use <i>(Add rows as needed to account for all conditions of use of machinery)</i>	
Operator must have a High-Risk work licence	
Operator must make sure to read the operators manual and familiarize themselves with the operation procedures and safety guidelines.	
Pre-operational inspections must be carried out.	
Operational Costs <i>(Add rows as needed to account for all operational costs of use of machinery)</i>	
Associated Cost	Cost
Wet Hire	\$450.50 per hour
Fuel	Diesel - \$2.04 per L (25L per hour)
Dogman	\$95.00 per hour
Schedule of Usage <i>(Add rows as needed to account for all instances of using machinery)</i>	
Date	Time
01/11/2023 – 15/09/2024 (Over a 10 month period)	206 Hrs 45 Minutes
Price of Hiring	Total - \$112,785.00 For wet hire and additional Dogman
Price of Transporting to Construction Site	\$250.00 delivery and pickup

Machinery: Concrete Boom pump	
Limitations <i>(Add rows as needed to account for all limitations of machinery)</i>	
Horizontal and vertical reach limits	
Weight restrictions	
Access restrictions due to the amount of space required to set-up and manoeuvre.	
Conditions of Use <i>(Add rows as needed to account for all conditions of use of machinery)</i>	
Operator must have a High-Risk work licence.	
Operator must make sure to read the operators manual and familiarize themselves with the operation procedures and safety guidelines.	
Pre-operational inspections must be carried out.	
Operational Costs <i>(Add rows as needed to account for all operational costs of use of machinery)</i>	
Associated Cost	Cost
Hire	\$230.00 per hour for a 32m Boom Pump including operator.
Extra Line hand	\$95.00 per hour
Primer	\$15.00 each
Rate per M3 pumped	\$8.00
Schedule of Usage <i>(Add rows as needed to account for all instances of using machinery)</i>	
Date	Time
01/11/2023 – 13/02/2024 (3.5 months)	32 Hours
Price of Hiring	Total - \$10,400 for Hire and Extra Line hand.
Price of Transporting to Construction Site	\$150.00 Travel rate

Other Plant for Hire: Security Cameras	
Limitations <i>(Add rows as needed to account for all limitations of other plant for hire)</i>	
Limited coverage and blind spots.	
Power source dependence	
Data storage and management	
Conditions of Use <i>(Add rows as needed to account for all conditions of use of other plant for hire)</i>	
Security cameras are to be placed in locations that strategically provide effective coverage, particularly of items that could be stolen or vandalised.	
Correct security software is to be used for the surveillance of the cameras, along with a password to prevent unauthorised access.	
Operational Costs <i>(Add rows as needed to account for all operational costs of use of other plant for hire)</i>	
Associated Cost	Cost
Hire	\$175.00 per week
Installation costs	\$430.00
Decommission cost	325.00
Schedule of Usage <i>(Add rows as needed to account for all instances of using other plant for hire)</i>	
Date	Time
01/11/2023 – 01/11/2024	12 month hire
Price of Hiring	Total for 52 weeks - \$9,100.00
Price of Transporting to Construction Site	Included in installation and decommission costs

END OF PHYSICAL RESOURCES COSTING FORM

Other Plant for Hire: Temporary Fencing and access gates	
Limitations <i>(Add rows as needed to account for all limitations of other plant for hire)</i>	
Temporary fencing provides a limited deterrence for unauthorised access.	
Less durable and stable than permanent fencing.	
Height	
Conditions of Use <i>(Add rows as needed to account for all conditions of use of other plant for hire)</i>	
The temporary fencing and access gates must be properly installed in accordance with AS4687.	
Access points are to be positioned in locations that provide controlled entry/exit to authorised personnel.	
Temporary fencing is to be 1.8m high to provide adequate security and deter theft & vandalism.	
Temporary fencing and access gates are to have signage that indicates the purpose of the fencing and that a construction site is beyond it so that unauthorised personnel do not enter.	
Operational Costs <i>(Add rows as needed to account for all operational costs of use of other plant for hire)</i>	
Associated Cost	Cost
Hire	\$3,800.00
Site induction	\$85.00
Admin fee	\$85.00
Schedule of Usage <i>(Add rows as needed to account for all instances of using other plant for hire)</i>	
Date	Time
01/11/2023 – 01/11/2024	12 Month contract
Price of Hiring	\$3,800.00
Price of Transporting to Construction Site	\$255.00 x 2 = \$510.00

Other Plant for Hire: Skip Bins	
Limitations <i>(Add rows as needed to account for all limitations of other plant for hire)</i>	
Space limitations for the set down of a skip bin	
Restricted waste types (the appropriate disposal of certain items is required when it can not be discarded in a skip bin)	
Weight limit.	
Conditions of Use <i>(Add rows as needed to account for all conditions of use of other plant for hire)</i>	
Waste segregation must be adhered to (General, recycling, hazardous etc)	
Dispose of waste by compacting the materials to maximise the available space.	
Cover skips bins with tarps or lids to prevent the waste from being blown out of the skip bin.	
Operational Costs <i>(Add rows as needed to account for all operational costs of use of other plant for hire)</i>	
Associated Cost	Cost
Hire	3m ³ - \$302.00ea, 4m ³ - \$407.00ea, 6m ³ - \$585.00ea, 10-12m ³ - \$893.00ea, 15m ³ - \$1,158.00ea.
Waste disposal fees	Mixed waste per tonne - \$120.00
Waste Levy	Mixed waste per tonne - \$115.20
Schedule of Usage <i>(Add rows as needed to account for all instances of using other plant for hire)</i>	
Date	Time
10m ³ - 01/11/2023 – 01/11/2024	Change over fortnightly (26 change overs)
6m ³ – 01/11/2023 – 01/11/2024	Change over fortnightly (26 changeovers)
Price of Hiring	Total - \$38,428.00
Price of Transporting to Construction Site	Price includes pickup and drop off.