

# Impact of Environmental Conditions on Cost

QUE\$TOR - New offshore project

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Component	Cost (million \$)
Subsea 1	69.696
Drilling 1	73.520
Topsides 1	85.594
Semi-sub 1	137.974
Equipment	66.029
Materials	21.940
Fabrication	8.785
Installation	2.420
Hook-up and commis...	1.500
Design & Project man...	9.882
Insurance & Certificat...	4.422
Contingency	22.996
Offshore loading 1	78.630

Primary Mooring system

Mooring type: Chain

Anchor type: Drag embedded

Soil condition: Average

Environment

Conditions: Severe

Wave height: 65.3 ft

Wind speed: 187 ft/s

Tidal current: 1.97 ft/s

Mooring chain size: 4.5 in

Number of mooring lines: 12

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Semi-sub cost estimate

Name: Semi-sub 1

TOTAL COST US Dollars: 137,974,000

Procured from: Gulf of Mexico

**EQUIPMENT**

Vessel purchase (3rd generation)			
Anchors (drag embedded)			
Total Equipment			

**MATERIALS**

General upgrade			
Marine upgrade	98 t	20,321	1,991,000
Drilling upgrade	98 t	10,160	996,000
Mooring upgrade			1,750,000
Mooring chain (4.5 inch)	32,946 ft	219	7,215,000
Mooring other	0 ft	66	0
Mooring termination	0	19,500	0
Buoyancy aid	1,774 t	874	1,550,000
Sub Total			20,698,000
Freight	6.00 %		1,242,000
Total Materials			\$ 21,940,000

**FABRICATION**

	QUANTITY	UNIT RATE	COST
Strip out	246 t	2,540	625,000
General upgrade	787 t	3,963	3,119,000
Marine upgrade	98 t	6,503	637,000

Location: Africa

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Build models for alternate wind, tide and currents, and immediately see impact on design and costs.