

< Kushimoto Bridge/ Myouga Loop Bridge Simulation >

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UC - win / Road Cost Estimation - Breakdown

Summary of work

Kushimoto Bridge and Myouga Loop Bridge (1.6km) to link Oshima with Kushimoto-cho, southernmost end of Honshu and road data model (0.3km) in Oshima. Kushimoto Bridge designed by Osaka office of Nippon Koei Co., Ltd. won the Tanaka Prize of Japan Society of Civil Engineering in 1999. This sample data is used as proposal of bridge preliminary design.

Estimated distance	Part section	Correction Coefficient	Quantity	Estimated distance
The total extended distance (km)		1.0	1.300	1.300
	sectional change	1.5	0.300	0.450
	Crossing	2.0	0.030	0.060
	IC·JCT	1.7	0.000	0.000
	Tunnel part	1.0	0.000	0.000
	Bridge part	1.5	0.700	1.050
	General section	1.3	0.200	0.260
	Others	0.5	0.000	0.000
A	Subtotal(A) Estimated extension distance	1.00	2.530	3.120

Item classification	Item Breakdown	Correction Coefficient	Standard work unit	Man-day input	Estimated Man-Day
Geographical feature (Man day)	Standard 50m mesh use	1.0 (0.15-0.4)	0.150	0.150	
	Par geographical feature edit	1.0 (0.1-1.5)	0.000	0.000	
	Space base use	1.0	0.2	0.000	
	Aerial photograph use	1.0 (0.2-0.3)	0.200	0.200	
	DXF conversion	0.5 (1.0-3.0)	0.000	0.000	
	XML	1.0 (1.0-2.0)	0.000	0.000	
Subtotal	0.4				
Alignment definition (Man day)	P calculation work	1.0	0.3	0.300	
	P input	1.0	0.15	0.150	
	VC input	1.0	0.2	0.200	
	Classification Setup	1.0	0.2	0.200	
Subtotal	0.9				
A cross-sectional definition (Man day)	Cross-sectional definition	1.0	0.8	0.800	
	Cross-sectional texture setup	1.0	0.3	0.300	
Subtotal	1.1				
3D Model・Texture (Man day)	Accuracy-Draft	1.0	1.0	0.000	
	Accuracy-Average	1.0	2.0	2.000	
	Accuracy-High Precision	1.0	3.0	0.000	
	Accuracy-Excellent Precision	1.0 (3.0-5.0)	0.000	0.000	
Subtotal	2.0				
B	Subtotal(B) The work in Man-day per km			4.300	

Optional Item Classification	Item Breakdown	Correction Coefficient	Standard work unit	Man-day input	Estimated Man-Day
3DModel・Texture	3DModel	70 Elements	1.0	4.000	4.000
	MD3Model	1Body	1.0	0.000	0.000
	3DTrees	2 Kinds	0.8	0.000	0.000
	(Man day) Texture	5 Textures	0.5	2.000	2.000
	Subtotal	6.0			
Simulation various setup, adjustment	Traffic setup	Ten roads	0.5	0.500	0.500
	Signal control setup	One crossing	0.5	0.000	0.000
	(Man day) A model of operation and a	WAY-P setup	1.2	0.200	0.200
	Flight path setup	20PT	0.3	0.300	0.300
	Default/Before/After setup	BFR/AFT	0.5	0.000	0.000
	Lake setup	50PT	0.5	0.200	0.200
	Stream setup	10 Sections	0.5	0.000	0.000
	Script setup		1.0	0.000	0.000
	Data adjustment		1.0	2.000	2.000
	Subtotal	3.2			
Output	Screen output	A41 sheet	0.07	0.000	0.000
		(Man day) A31 sheet	0.1	0.000	0.000
	AVI output (1minute)	Rough	1.0	0.000	0.000
		Normal	2.0	0.000	0.000
		Excellent	4.0	0.000	0.000
		Sound	Sound Setup	別途見積	0.000
		Audio input	別途見積	0.000	0.000
		BGM	別途見積	0.000	0.000
		Guide	別途見積	0.000	0.000
	AVI composition	Normal	別途見積	0.000	0.000
		Excellent	別途見積	0.000	0.000
	Perspective view creation	Rough	別途見積	0.000	0.000
		Normal	別途見積	0.000	0.000
		Excellent	別途見積	0.000	0.000
	Subtotal	0.0			
C	Subtotal(C) Option work classification				9.200

Engineer's standardized work breakdown list				
Man day unit price of an Engineer	EngineerA	10%	3,830	38,300
	EngineerB	30%	9,150	30,500
	EngineerC	40%	10,400	26,000
	Engineer	20%	4,420	22,100
D	Man day unit price(D) 27,740円		27,800	

Direct personnel expenses				
E	Sum total E = (AxB+C)xD			¥628,725

Administrative expenses	20% of direct personnel expenses	20%		
F	Administrative expenses(F)			¥125,745

Cost				
	Technical cost(Field survey expense etc.)			
	Express charges(25% Premium overtime work etc.)			
	Software & hardware purchase expenses			
	Satellite photography expenses			¥64,000
	Apparatus rental and transportation			
	Transportation-expenses cost price			
	Work management expenses			
	Others		discount	¥-8,470
G	Subtotal of costs (G)			¥55,530

Summation	Estimated Grand Total(E+ F+ G)	¥810,000
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This excludes the cost of any local taxes that may be levied upon the project.