Table 1 (A) Factors scores for QIPPP

Category	Co de	Factor	Measure Unit	Factor Limitation		Score
Company	F1	1.The financial capacity	7	Lower limit	Upper limit	
			Cash flow of company as a percentage from the estimating step	0		0
				· 0	< 20 %	1
				20	< 40 %	2
				40	< 60 %	3
				60	< 80 %	4
				80	100 % or more	5
	F2	2.Select team members	Availability of project manager, site engineers and labor before starting the project as a percentage from the estimating step	Lower limit	Upper limit	
				0		0
				0	< 20 %	1
				20%	< 40 %	2
				40%	< 60 %	3
				60%	< 80 %	4
				80%	100 % or	5
	F3	3.Resource capacity	The company resource availability as a percentage from the estimating step	Lower limit	more Upper limit	
			Francisco established and	0		0
				0%	< 20 %	1
				20%	< 40 %	2
				40%	< 60 %	3
				60%	< 80 %	4
				80%	100 % or	5
Project	F4	4.Project scope definition	Availability of a complete drawing and specification	more Incomplete drawings and specifications.		0
				Complete draw specifications.	rings and	5
	F5	5. Project Complexity.		Project constructed in country under a state of war		0
				Tunnel under s bridges over se	as.	1
				Road tunnels at bridges.		2
				Malls and huge government bu Roads.		3
				Residential and administrative		5
	F6	6. Past experience from	last similar projects.	0 projects	ounungs.	0
		ı		≤ 2 projects.		1

				2-5 projects.		2
				5-10 projects.		3
				10-15 projects.		4
				\geq 15 projects.		5
	F7	7.Financial analysis	project financial analysis as a percentage	Lower limit	Upper	5
			of company financial capacity	→ 100 %	limit	0
				80%	≤100	1
				8070	<u>≤</u> 100 %	1
				60%	<80 %	2
				40%	<60 %	3
				20%	<40 %	4
				< 20 %		5
	F8	8. Clear understanding of the project scope.	The percentage depends on engineer understanding.	Lower limit	Upper limit	
Engineer				0		0
staff				> 0	<20 %	1
				20%	<40 %	2
				40%	<60 %	3
				60%	<80 %	4
				80%	100%	5
	F9	9. Accurate work	complete work breakdown structure	Incomplete wor		0
		flow planning		breakdown structure Complete work breakdown structure		5
	F10	10. Clear process of	Availability of agreements to apply	Unavailability of		0
		project control	project control	agreements to a	pply	
				project control. Availability of		5
				agreements to a	pply	5
				project control.		
	F11	11. Clear change	Availability of agreements to apply	Unavailability of		0
		request protocol	change requests	agreements to a change requests		
				Availability of	•	5
				agreements to a		
	F12	12. Experience and intuition of the project team	planning engineer years of experience	change requests Lower limit	Upper limit	
		members				
				0		0
				> 0	<1 year	1
				1 years	<5	2
				5 years	years <10	3
				-	years	
				10 years	<20 years	4
G*4	E12	12 D	English day day at	\geq 20 years.	1- 4.	5
Site conditions	F13	13. Resource availability	Ensuring that the assumption of estimated amount of resources is available in company resource pool	Didn't make che confirm that the assumptions are		0

		Made check to confirm that the assumptions are	5
		correct.	
F14	14. Late material delivery.	Ignoring late material	0
		delivery.	
		Considering late material	5
		delivery.	
F15	15. Bad weather conditions.	Ignoring bad weather	0
		conditions.	
		Considering bad weather	5
		conditions.	