

**Department of Roads  
TAT and SOP**

**1. TAT for Road Design per 10 km of road (Irrespective of road class)**

SL. No.	Activity	Time (days)	HR (Qty. & specialization)	Remarks
1	Desktop study	3	One road design engineer (RDE)	
2	Feasibility study	9	1 RDE + 1 surveyor + stake holders	Travel time from design office to site and back taken as 4 days
3	Preparation and presentation of feasibility report	4	1 Road Design Engineer	
4	Ghats tracing	20	2 surveyors + 5 laborers	@500 m/day
5	Details Survey	34	2 surveyors + 10 laborers	@300 m/day
6	Details design	21	1 Road design Engineer	Including site verification by the designer
7	BoQ and cost estimation	7	1 civil engineer	
<b>Total</b>		<b>98</b>		

**2. TAT for Road Bridge Design****A. Short span Bridge (Span greater than 6m but less than or equal to 30 m)**

Sl. No	Activity	Time (days)	HR (Qty. & specialization)	Remarks
1	Site study and survey	5	1 Bridge Engineer + 1 surveyor	Travel time from design office to site and back taken as 4 days
2	Data processing & drawing preparation	1	1 Bridge Engineer + 1 surveyor	
3	Analysis and detail design	5	1 Bridge Engineer	
4	Detail drawings	14	1 Bridge Engineer	
5	BoQ and cost estimation	7	Civil/bridge engineer	
<b>Total</b>		<b>32</b>		

**A. Medium span Bridge (Span greater than 30m but less than or equal to 60 m)**

Sl. No	Activity	Time (days)	HR (Qty. & specialization)	Remarks
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1	Site study and survey	6	1 Bridge Engineer + 1 surveyor	
2	Data processing & drawing preparation	2	1 Bridge Engineer + 1 surveyor	
3	Subsoil investigation	90	Generally out sourced	Including time reqd. For tendering and evaluation time
3	Analysis and detail design	14	1 Bridge Engineer	
4	Detail drawings	14	1 Bridge Engineer	
5	BoQ and cost estimation	7	Civil/bridge engineer	
<b>Total</b>		<b>133</b>		

***C. Long span Bridge (Span greater than 60 m but not more than 150 m)***

Sl. No	Activity	Time (days)	HR (Qty. & specialization)	Remarks
1	Site study and survey	8	1 Chief Bridge Designer (CBD) + 1 Bridge Engineer (ABE) + 2 surveyor	Travel time from design office to site and back taken as 4 days
2	Data processing & drawing preparation	2	1 Bridge Engineer + 1 surveyor	
3	Subsoil investigation	90	Generally out sourced	Including time reqd. for tendering and evaluation time
3	Analysis and detail design	21	1 CBD + 1 Bridge Engineer	
4	Detail drawings	30	1 Bridge Engineer	
5	BoQ and cost estimation	10	Civil/bridge engineer	
<b>Total</b>		<b>161</b>		