



**DARJEELING MUNICIPALITY**  
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**Justification for locating the project in forest area (Zoo1 & Zoo2)**  
**(Certified regarding alternative examined for linear project)**

**Name of Work: Construction of water reservoir for Water Supply project within Darjeeling Municipality under AMRUT.**

Certified that following alternative detailed as below and also shown in enclosed map on Page No. have been examined in detailed and have come to conclusion that the alternative No-1 is the most suitable for forestry point of view and the Forest land required for the project in Alternative No. 1 is lesser than the Alternative Nos 2 & 3.

Description	Status of Land	Area in Sqm	Area in Ha	Remarks
Alternate - 1	Forest Land (Zoo)			
	(iv) Total Area required for construction of water tank including inlet and outlet pipeline in <b>Zoo1</b> -	189	0.0189	The proposed area required for civil works for construction of water tank in Zoo1 and Zoo2 location is less as compared to the alternative area 2&3. The area involves less forest area and with lesser number of trees
	<b>Zoo2</b> - location including its allied works.	189	0.0189	
Total Area	378	0.0378		
Alternate - 2	Forest Land (Zoo)			The alternative site 2&3 as compared to the alternative site-1 requires more forest land with steep slope terrain and involving with lots of natural vegetation.
Total Area	(i) Slope land with steep terrain above Zoo Road	405	0.0405	
Alternate - 3	Forest Land (Zoo)			
Total Area	(i) Slope land above Zoo Road	475	0.0475	

The other Alternative 2 & Alternative 3 as shown are being rejected on of as follows:-

1. Alternative 2 & Alternative 3 involves more forest area i.e 0.0405 and 0.0475 Hectares respectively to be diverted which is more than the Alternative 1.
2. In Alternative 2 & Alternative 3 the proposed area lies in the lower altitude which can serve water to little residence only.
3. In Alternative 2 & Alternative 3 due to the steep terrain slope the forest land was not suitable for construction of water tank.
4. In Alternative 2 the pipeline will be in close proximity with steep gradient to the sensitive forest area and technically not feasible involving safety of the pipeline, forest and the villages nearby.
5. In Alternative 2 & Alternative 3 the number of turning points (TPs), i.e bends required for laying of pipeline are more compared to Alternative 1, which technically builds up a huge water pressure in the bend portion showing thus unsafe and will increase in the project cost.

Considering the above 5 points, it is quite imperative to consider in Alternative 1 which is more safety and suitable on technical ground in comparison with Alternative 2 & Alternative 3 for the ongoing “water supply project under AMRUT within Darjeeling Municipality”.

  
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