

**COMPARATIVE STATEMENT OF THREE ALTERNATIVE ROUTE
OF 132KV S/C NOKHADAIYA-KHAJUWALA TRANSMISSION LINE.**

Description	Route I	Route II	Route III
Bee Line Length	75 Km	75 Km	75 Km
Line Length	80.988 km	80.708 km	84.977 km
No of Angle Points	71	73	74
Type of Land	Uneven terrain with sand Dunes	Uneven terrain with sand Dunes	Uneven terrain with sand Dunes
S.H. Crossing	0	0	0
N.H. Crossing	0	0	0
Power Line Crossing	0	0	0
Railway Crossing	0	0	0
River Crossing	0	0	0
Line Length involved in Forest area	12.579 km PF = 12.579 km Total Forest Area Involved = 35.4291 Ha Bikaner = 2.3695 km Chhatargarh = 10.2094 km total = 12.579 km	18.664km PF = 18.664 km Total Forest Area Involved = 56.9846 ha Bikaner = 9.708km Chhatargarh = 8.956km Total = 18.664km	16.262 km PF = 16.262km Total Forest Area Involved = 50.004 Ha Bikaner = 11.388km Chhatargarh = 4.874km Total = 16.262km

From the above comparative statement it is evident that , the involvement of forest area is minimum in **Route I** which is **37.82% lesser than Route II & 29.14% lesser than Route III** and also the trees to be felled will be less in Route I compare to Route II & Route III.

The terrain of some portion of Alternative Route II & Alternative Route III is not suitable for laying the transmission line due to presence of shifting sand dunes.
Hence , the Route - I is the best suitable route for 132kv S/C NokhaDaiya -khajuwala Transmission Line .



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