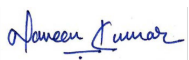


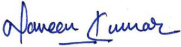
**Comparison Sheet of Route-1, Route-2 & Route-3 for minimum
involvement of forest towards construction of 33 KV Transmissin Line for
Power Supply through independent feeder to M/s Garrison Engineers
(MES), Ramgarh**

Sl. No.	Items	Route -1 (Final Route)	Route -2	Route -3
1)	Bee Line Length	1.111 km	1.111 km	1.111 km
2)	Route Length	1.317 km	1.337 km	1.756km
3)	No. of Angle Points(<i>excluding Tapping Point & dead end</i>)	29 Nos	27 Nos	31 Nos.
4) i)	Forest (Protected /Notified /Demarkated /Un Demarkated & Deemed Forest) Approx.	0.633Km	0.680Km	0.965Km
ii)	No. Trees to be cut or trim	Nil	5	4
5)	Tough Hilly Terrain	---	---	---
6)	Power Line Crossing :			
	400 KV Transmission Line	---	---	---
	220 KV Transmission Line	---	---	---
	132 KV Transmission Line	---	---	---
	33 KV Transmission Line	---	---	---
	11 KV Transmission Line	---	---	---
	440 Voltage LT Line	---	---	---
	220 Voltage LT line	---	---	---
7)	Trolley Line(ropeway)	---	---	---
8)	Railway Line Crossing	---	---	---
9)	Major River Crossing (DVC Canal)	1 No.	1 No.	1 No.
10)	National Highway	---	---	---
11)	State Highway	---	---	---
12)	Defence Area	---	---	---
13)	Transportation & Maintenance	Good Accessibility	Good Accessibility	Good Accessibility


 Executive Engineer (E)
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Justification for locating the project in proposed forest land

1. The mentioned allocated transmission line is in the forest area to cater power to MES Ramgarh which includes lighting, water supply, running of all appliances of military station, etc. that requires Electricity and the MES, Ramgarh Cantonment has approached DVC to provide the same.
2. The DVC has consented to provide power from its 132/33 KV Substation at Ramgarh by construction of 33 KV transmission line partially through O/H construction and partially through laying of 66 KV XLPE U/G cable to the switchyard of MES, Ramgarh.
3. The site condition of proposed MES, Ramgarh and DVC's Ramgarh Substation is such that if forest land any how is avoided from the route of transmission line, the length of line will be increase approximately 40 to 50 times of its original length. Increase in line not only increase the total cost of project but also increase the transmission loss too much high which is not economical for the project.
4. Several alternative routes have been explored to avoid the forest land but non forest land is not available for the project however, utmost effort has been made to minimize the forest land.
5. Therefore, a route survey has been conducted to establish to draw the transmission line and the present option is found to be optimum/minimum from the prospective of forest land use. As such minimum forest land has been proposed for the diversion.


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