COST BENEFIT ANALYSIS (Combined for All 03 Forest Divisions) BENEFIT FROM THE PROJECT

765 KV D/C Jharsugudato Dharamjaygarh Transmission Line II will provide following benefit considering life time of 30 years

S/N	HEAD	QUANTITY	UNIT RATE (In Rs)	TOTAL BENEFIT (In Crores)
1	Cost of the power transmission charges in life of 30 years.(4200 MW x 365 Days x 24 Hours x 30 Years) x 10 ³ - (3% Transmission loss)	11.03760 x 10 ¹¹ Unit	Rs 0.30 / Unit	32119.42
2	Employment generated during construction for a period of 1.5 years.(365 Days x 1.5 years x 310 Persons per day)	169725 Man Days	Rs 309 / Day	5.24450
4	Employment generated during operational life of 30 years.(365 Days x 30 years x 10 Persons)	109500 Man Days	Rs 500 / Day	5.47500
5	Development of industries, Agriculture and other field in 30 years	L/S (3 times of transmitted power)	Value judgement	96358.26
А	Total benefit from the project in crores rupees (1+2+3+4+5)			128488.40
B1	Cost of the project (Line) approx @ 3.50 crores per KM for 104.128 Kms	Rs. 3.5 Cr.	Per Km	364.4480
B2	O & M Cast for 104.128 Km Line @ Rs 1.25 Lakhs per anuam per Km i.e. (104.128x1.25x30)	Rs1.25 Lakhs	Per annum	39.0480
В3	Annual depriciation of Transmission Line = 30 x (Net value of Line/Estimated life of Line) Total cost of Line = 364.448 Cr. Estimated life = 30 Years Scrap value at the end of 30 years of life (10% of cast) = 36.4448 Cr. Net Value (Cost of Line - Scrap Value) = 364.448 - 36.4448 = 328.0032 Cr. Anual Depriciation = 328.0032/30 =10.93344 Cr. / Year			328.0032
B4	Annual intrest on capital diminishing anually = (0+Net Value/2 x .09) = 0+328.0032/2x0.09 = 14.76014x30 =	Rs. 14.76	Cr. /Year	442.8043
B5	Total losses in forest due to this project in crores of rupees i.e. approx (Raigarh 69.9127, Dharamjaygarh 43.39028 And Korba 12.0945)			125,39748
В	Total losses i.e (B1+B2 +B3+B4)			1299.7010

C Cost Benefit Ratio i.e Project Benefit (A) /Forest Loss (B)

98.86

i.e. ~ 99

Hence the project has very high benefit to the country as compared to forest loss, The benefit to loss ratio is approximate 99 Times

POWERGRID RAIGARHIT. WITCHT (PR.R. Baraskar

मुख्य प्रबंधक /Chief Manager

पावर प्रिष्ठ रामगढ़ / Romer Grid Raies, व