

ROUTE COMPARISON STATEMENT for 400 kV D/C PURULIA TO RANCHI
TRANSMISSION LINE UNDER PURULIA DISTRICT (PURULIA FOREST DIVISION)

SL No	DESCRIPTION	ALTERNATIVE-1 (R1) : PROPOSED ROUTE	ALTERNATIVE-2 (R2)	ALTERNATIVE-3 (R3)
1.	Total Length of 400kV D/C Purulia to Ranchi Transmission Line.	112.498 kms	112.662 kms	122.268 kms
2.	Length of Line passing through Purulia District	22.944 kms	26.257 kms	34.031 kms
3.	Involvement of total forest length under Purulia District	2.577 kms	9.765 kms	7.718 kms
4.	Forest Area	12.288 ha	44.919 ha	35.503 ha
5.	Merits and demerits			
	Length	Least	Higher	High
	Forest	Least	Higher	High
	Terrain			
	(a) Plain	91%	78%	77%
	(b) Semi hilly	6%	16%	18%
	(c) Hilly	3%	6%	5%
6.	Lines in parallel	PGCIL Existing 400 KV Lines	PGCIL Existing 400 KV Lines (Some Extent)	PGCIL Existing 400 KV Lines (Some Extent)
7.	Overall assessments	Alternative - I is recommended for consideration based on above merits and demerits.		

Authorized Signatory
Purulia Kharagpur Transmission Co Limited

Divisional Forest Officer
Purulia Forest Division

ROUTE COMPARISON STATEMENT for 400 kV D/C PURULIA TO RANCHI
TRANSMISSION LINE UNDER PURULIA DISTRICT (PURULIA FOREST DIVISION)

Proposed Route 1:-

This total route length of 400 kV D/C Purulia to Ranchi is 112.498 km. Out of which about 22.944 kms of line length is coming under Purulia District. Forest length coming under Purulia Forest division is around 2.577 Km and after avoiding major forest blocks, power line crossings, industrial areas, habitations, villages etc , forest area of 12.288 ha is encountered. This Transmission Line route is mainly passing through plain terrain. The Soil pattern throughout the route is Dry fissured rock. During survey it was encountered that ROW (Right of way) problems will be comparatively less during construction activities. Mainly Protected Forest area encountered in this route with less area of reserved forest area. No old monuments/ temples and future developments are encountered in this route.

Proposed Route 2:-

The length of this route is 112.662 Km . Out of which 26.257 Km of length is passing through Purulia District and forest is involved & a large chunk of forest area about 44.919 Ha (9.765 Km) encountered in this route with mainly Reserve & Protected forest.

Proposed Route 3:-

The length of this route is 122.268 Km. Out of which 34.031 Km of length is passing through Purulia District and forest is involved & a large chunk of forest area about 35.503 Ha (7.718 Km) encountered in this route with mainly Reserve & Protected forest.

Conclusion:-

Comparing the above three alternate routes ,**Route 1** is the best alternatives as forest land encountered is minimum and as anticipated less Right of Way Problems.

Authorized Signatory
Purulia Kharagpur Transmission Co Limited

Divisional Forest Officer
Purulia Forest Division