

PROJECT REPORT

Short Narrative of the proposal and project/scheme: Under Raigarh Forest Division

Power Grid Corporation of India Limited (A Government of India Enterprise) a **Navaratna Company** of Government of India has been contributing significantly towards development of Indian power sector by undertaking coordinated development of power transmission network along with effective and transparent operation of regional grids and through continuous innovations in technical and managerial fields.

Company is continuously strengthening its integrated National Grid in the country to ensure optimum utilization of generating resources and bringing security and reliability in power system operation. At the end of 11th plan, about 28000 MW of inter regional power transfer capacity of National grid has been established.

Further strengthening of the National Grid is being undertaken through implementation of various inter-regional links as a part of planned generation projects. The inter-regional power transfer capacity of National Grid is envisaged to be enhanced to more than 65,000 MW at the end of XII Plan.

In line with the above, Power Grid Corporation of India Limited has been entrusted, the work of construction of 765 KV D/C (Hexagonal) 2nd Transmission Line from Jharsuguda to Dharamjaygarh (Korba), regarding **Common Transmission System Associated with East Coast and NCC Power Projects in Srikakulam Area-Part A.**

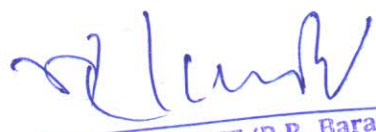
1. The required forest land/boundary of adjoining forest area marked on Survey of India maps scale 1:50000 are enclosed.
2. The required forest land/boundary of adjoining forest area marked on Vegetation Maps scale 1:50000 provided by Divisional forest Officer FMIS Division Raipur are enclosed.

Line Route:

The above Transmission Line is passes through Protected/Revenue forest of Raigarh, Dharamjaygarh and Korba Forest Division and about 153.4481 Hectares Forest & Revenue land shall be used.

Project Cost:

Approximate Rs. 360 Crore.


 आर.आर. बारस्कर/R.R. Baraskar
 मुख्य प्रबंधक/Chief Manager
 पावर ग्रिड रायपुर/Power Grid Raipur

Government Approval:

Government of India Ministry of power has conveyed the administrative approval and expenditure sanction of the President to the implementation of Western Region System strengthening scheme-I to Power Grid Corporation of India Limited vide reference no.11/4/2007-PG dated 29/07/2010 of Section 68 of Indian Electricity Act 2003, in respect of the **Common Transmission System Associated with East Coast and NCC Power Projects in Srikakulam Area-Part A.**

This project is a part of National Grid and for interconnecting Chhattisgarh State with Western Regional Grid under Western Region System Strengthening Scheme i.e. (WRSS-I), the project is mandatory to pass from the Raigarh Forest Division of Chhattisgarh State, As the line passes through several thickly populated areas, dense hilly forest having significant undulation, steep slope, coal block areas and close vicinity of JPL Plant. However the three alternatives of line routes have been explored and accordingly minimum forest area involvement route is recommended for approvals. The details of forest area and number of trees shall be affected are mentioned below:-

Alternative - I: 153.4481 Ha. (Route length 23.380 Km)

Alternative - II: 231.786 Ha. (Route length- 34.595 Km)

Alternative - III: 212.591 Ha. (Route length- 31.730 Km)

The Alternative-I is proposed for approvals due to following reasons:-


- i) **The minimum forest area is involved as compared to alternative II & III.**
- ii) **Less dense forest area is involved as compared to alternative II & III**
- iii) **Less number of trees is affected as compared to alternative II & III.**

Cost/Benefits analysis:

The project is highly beneficial as compared to the expenditure involved for implementation of this project. This project would strengthen the western region power transmission system and meet the power crises of Chhattisgarh. After commissioning of this line it will be a big boost to agriculture, industrial growth, employment generation and will give appreciable relief to domestic consumers.

Increase in revenue by transmission charges power approx. to the tune of 32119.42 corers for 30 years.

- i) Employment generated during construction of line for a period of 1.5 years to the tune of 5.24450 corers.
- ii) Employment generated during manufacturing of line material for a period of 01 year to the tune of 1.410 corers.
- iii) Employment generated during operational life of line for a period of 30 year to the tune of 5.4750 corers
- iv) Development of various types of industries to the tune of approximate 96358.26 corers for 30 year.


 आर.आर. बारस्कर/R.R. Baraskar
 मुख्य प्रबंधक/Chief Manager
 पावर ग्रिड रायगढ़/Power Grid Raigarh

Employment likely to be generated:

Employment likely to be generated during implementation and operation of this project.

- i) Approximate 169725 Man Days will be generated during construction of Transmission line.
- ii) Approximate 109500 Man Days will be generated during operation of this project for 30 years
- iii) Approximate 164250 Man Days will be generated during Development Of Industries, Agriculture and other field in 30 years

Details of displacement of people due to the project, if any:

No Displacement of people is involved in this project as the power line is being erected away from the village and town.

Number of families affected:

No family affected.

Number of scheduled cast/scheduled tribe families affected:

No scheduled cast/scheduled tribe families are affected.

Rehabilitation plan (To be enclosed):

Not required.

Whether clearance under environment (protection) Act 1986 required?

No.


 आर.आर. बारस्कर / R.R. Baraskar
 मुख्य प्रबंधक / Chief Manager
 Power Grid Corporation of India Ltd.
 पावर ग्रीड कॉर्पोरेशन ऑफ इंडिया लि.
 Raigarh

Date: 04.09.2015

Place: Kotra Raigarh



No.11/4/2007-PG

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power

Shram Shakti Bhawan, Rafi Marg, New Delhi - 110001
Telefax No. 23730264

New Delhi, July, 2010

To
CMD
PGCIL
Gurgaon.

Subject: Prior approval of the Government under Section 68 of the Electricity Act, 2003

Sir,
I am directed to refer to PGCIL's letter No. C/CP/LTOA-Srikakulam Area dated 22.7.2010 on the above subject and to convey the prior approval of the Central Government under sub-section (1) of Section 68 of the Electricity Act, 2003 for "Common Transmission System associated with East Coast and NCC Power Projects in Srikakulam Area" in the three schemes with following scope under each scheme:

Scheme No.-1
"Common Transmission System Associated with East Coast and NCC Power Projects in Srikakulam Area - Part-A"

- 1) Establishment of 400 kV Pooling Station at Srikakulam with a provision of establishing a 765/400 kV substation in future in the same switchyard.
- 2) Provision of 1x1500 MVA, 765/400 kV transformer at Angul
- 3) Srikakulam Pooling Station-Angul 765 kV D/C (initially charged at 400 kV)

Scheme No.-2
"Common Transmission System Associated with East Coast and NCC Power Projects in Srikakulam Area - Part-B"

- 1) Angul-Jharsuguda 765 kV 2nd D/C line (1st line covered under Orissa IPPs)
- 2) Jharsuguda-Dharamjaigarh 765 kV 2nd D/C line (1st line covered under Orissa IPPs)

Scheme No.-3
"Common Transmission System Associated with East Coast and NCC Power Projects in Srikakulam Area - Part-C"

- 1) Provision of 2x1500 MVA, 765/400 kV transformer at Srikakulam Pooling station.
- 2) Charging of Srikakulam Pooling Station-Angul 765 kV D/C line at its rated voltage.

The above schemes may be implemented matching with progress of the associated generation projects.

The approval is subject to compliance of (a) the requirement of the relevant provisions of the Electricity Act, 2003, as amended from time to time and the rules and regulations framed there under and (b) the rules governing the overhead lines as specified in the Indian Electricity Rules, 1956 till they are substituted by corresponding rules framed under the Electricity Act, 2003.

This approval is also subject to the following conditions:

- 1 The implementing agency will commence construction of the project within 3 years, unless this term is extended by the Ministry of Power.
- 2 Ministry of Power may withdraw the approval before the expiry of the period of 3 years after giving a one-month notice.

Yours faithfully,

(K.V. Gopala Rao)

Under Secretary to the Govt. of India

Copy to Shri Pradeep Jindal, Director (SP&PA), CEA w.r.t. to CEA's letter U.O.No 52/11/SP&PA-2010/725 dated 26.7.2010.

एस. के. घोष / S.K.GHOSH
अपर महाप्रबंधक / A.G.M.
पावरग्रिड / POWERGRID
रायगढ़ (छ.ग.) / RAIGARH(C.G.)