

DETAIL NOTE ON PROJECT

BRIEF DETAIL OF 765 kV D/C HEXA KHANDWA – DHULE TRANSMISSION LINE BEING CONSTRUCTED BY KHARGONE TRANSMISSION LTD.

The Central Electricity Regulatory Commission (hereinafter referred to as "the Commission"), in exercise of the powers conferred under Section 14 of the Electricity Act, 2003 (hereinafter referred to as "the Act"), will grant the license to Khargone Transmission Limited (KTL), as necessary documents have been provided to CERC. KTL having its registered office at New Delhi, (hereinafter referred to as the licensee) to Build, own, operate and maintain the transmission lines, more specifically described in the schedule attached to this license, which shall be read as a part and parcel of this license, subject to the Act, the rules and the terms and conditions specified under the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for grant of transmission license and other related matters) Regulations, which shall be read as anti-parcel of this license. LOI for the project from REC Transmission Projects Company Limited vide letter no. RECTPCL/P-24/Khargone/2016-17/98 dated 26-05-2016 has also been received. The identification of three alternative route alignments and selection of optimized route alignment for 765 kV D/C HEXA Khandwa – Dhule Transmission line using survey of India Toposheets and associated field work between proposed 765 kV Substation at Khandwa, District : Khandwa in Madhya Pradesh and existing 765 kV Substation at Dhule, District : Dhule in Maharashtra along with B-Line Length. The project shall form part of National Grid and would become a vital link for bulk power transfer of between State of Madhya Pradesh and Maharashtra.

Three alternative route corridors were identified largely by maximizing linear sighting opportunities, such as following existing roadways and power line corridors, negotiation with river, railway, road electric power and telephone line crossing and least crossing of notified forest area. All efforts have been made to provide minimum numbers of angle points and utmost care has been fixed on the ground with possible angle of diversion. Rivers are mainly crossed with right angle and a minimum span. Crossings are located on high bank and are out of the maximum flood level. Similarly, power line crossing have been fixed as close as possible to the right angle but not less than the 60 degree crossing.



The line passes through the state of Madhya Pradesh and Maharashtra. The line passes through the Khandwa, Khargone & Barwani Districts of Madhya Pradesh and Dhule District of Maharashtra. Every effort has been made to avoid forestry but it not possible to completely avoid the forest. The line length of alternative-1(Proposed) is having 189.049 km, alternative -2 is having 192.934 km and alternative -3 is having 190.758 km.

The alignment with minimum crossing and minimum length of the forest has been selected as the final proposed alignment. After detailed analysis, it is observed that the alternative 1 has the least route length and has minimum crossing in terms of rail, road and existing power lines. Alternative -1 also is the best in terms of approachability for construction as well as maintenance. Keeping the above points in consideration, we propose alternative 1 to be taken as the final proposed route alignment.

Transmission line projects are environmentally friendly and do not involve any disposal of solid effluents and hazardous substances in land, air and water. The constructional features of 765 kV line is such that it is not affecting the environment as it's not dividing the existing forest because of long spans between the towers (400 Mtrs). Layout of transmission line follows along the forest road / forest block boundary thus involving minimum tree felling and also allowing free movement of birds due to high towers heights (72 Mtrs). The height of Bottom conductor from the top of the tree is 9.0 Meters.. A very small space is required for the construction of tower foundations (15 X 15 Mtrs). The tower foundations are under the ground (3.5 Mtrs) and a small portion of 0.50X0.50 Mtrs are elevated as plinth.

(A) TRANSMISSION LINE DETAILS:-

Sr. No.	Item	Details
1	Voltage of Transmission Line	765 kV (Kilo Volts)
2	Total Length of 765 KV DC HEXA Khandwa - Dhule Transmission Line (Madhya Pradesh)	125.7 KM
3	Line length/ Forest area across forest of Forest Division of Sendhwa and Barwah (Madhya Pradesh State)	39.437 Hectare
4	Total No. of Tower to be erected for entire line	325 Nos.
5	Height of Tower	72 Mtrs
6	Maximum width of Right of Way for 400KV D/C T/L	67 Meters (For 765 kV Double Circuit)

7	Minimum Clearance allowed between conductors of transmission lines and Trees	For 765 kV, 9.0 Meters.(As per prevailing Forest Act,Table-27.2)
8	Employment likely to be generated	About 150 people will be engaged during construction period and also employment opportunity may be generated in beneficiary, agriculture and industrial sector.
9.	Total population benefited	Major benefits will be going to peoples of Madhya Pradesh and Maharashtra.

Date: 14.11.2016

Place: Khargone

Signature:



Name in Block Letter: S.S.SHIRUR

Designation:

Project Head

Office Seal:

