

## DETAIL NOTE ON PROJECT

### **Brief Detail of Bikaner (PG) – Khetri (S/S) 765 KV D/C Line by being constructed by Bikaner Khetri Transmission limited.**

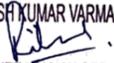
The Government of India has identified the power sector as the key sector to promote the sustained industrial growth. It has embarked on an ambitious mission – “Power for all” backed by extensive reforms to make the power sector more attractive for private sector investment and participation. In this regard M/S Bikaner Khetri Transmission limited, the SPV for the Transmission scheme “**Transmission system associated with LTA Application from Rajasthan SEZ Part-D**” with following scope of works.

<b>Sl.No</b>	<b>Name of Transmission Element</b>	<b>Capacity/Ckm (Appx.)</b>
1	Bikaner(PG)-Khetri(S/S) 765 KV D/C Line	220 KM
2	765 KV Bays at Bikaner(PG) & Khetri (S/S) for Bikaner(PG)-Khetri(S/S) 765 KV D/C Line	765 KV Line Bays-4
3	1X240 MVar Switchable line reactor for each circuit at each end of Bikaner – Khetri 765 KV D/C Line along with reactor bays.	1X240 MVar line reactor -4 765 KV Reactor Bay-4

The Transmission scheme “**Transmission system associated with LTA Application from Rajasthan SEZ Part-D**” was agreed in the 2<sup>nd</sup> meeting of Northern region standing committee on Transmission held on 13.11.2018.

Further in the 3<sup>rd</sup> meeting of the empowered committee on transmission held on 21.12.2018, the above scheme was decided to be taken up through Tariff based competitive bidding. Ministry of power has appointed M/S PFC Consulting limited as Bid Process coordinator (BPC) for the above scheme.

CEA Conveys prior approval of Government under section 68(1) of Electricity act, 2003 to M/S Bikaner Khetri Transmission Limited for the above mentioned transmission line under the transmission scheme “**Transmission system associated with LTA Application from Rajasthan SEZ Part-D**”

RITESH KUMAR VARMA  
  
ASSOCIATE GENERAL MANAGER (PROJECT)  
BIKANER KHETRI TRANSMISSION LTD.

Transmission line project are environmentally friendly and do not involve any disposal of solid effluents and hazardous substances in air, water and land. The construction feature of 765 KV D/C Line is such that it is not affecting the environment as it is not dividing the existing forest because of long span between the towers (400 mtr). 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 tower height 65-75 mtr. The ground clearance between bottom conductor & ground is 15 mtr. The spacing between phases to phase is maintained in such a way which allow free movement to birds.

The Bikaner(PG) –Khetri(S/S) 765 KV D/C Line starting from Power grid Bikaner Switchyard & terminating at Khetri (Substation) passing through Bikaner,Churu,Sikar & Jhunjhunu District of Rajasthan. It will create the employment opportunity for local villagers during construction phase for one years and later on for maintenance of transmission line, hence affecting the life of local villager peoples directly.

**TRANSMISSION LINE DETAILS:**

**Bikaner (PG)-Khetri (S/S) 765 KV D/C Line:**

Sl.No	Description	Details
1	Total Length of Bikaner(PG)-Khetri(S/S) 765 KV D/C Line	239.390 KM
2	District & Forest Division Details through which line is passing	District:Bikaner,Churu,Sikar& Jhunjhunu Forest Division: Bikaner,Churu,Sikar& Jhunjhunu
3	Area of Forest land through which line is passing	Bikaner Forest Division: 0.2152Ha Jhunjhunu Forest Division:3.3598 Ha Total Area:3.5750 Ha
4	Total no of Towers to be erected	611 no's
5	Total no of towers to be erected in forest land	02 no's
6	Height of Tower	65-75 Mtr
7	Maximum Width of Right of Way(ROW) for 765 KV D/C Line	67 Mtr
8	Minimum allowed clearance between Conductor of transmission line & Trees	10 Mtr As per Letter no F.No.7-25/2012-FC