

Name of SPV: **POWERGRID Barmer I Transmission Limited**

(Formerly known as “Barmer I Transmission Limited”)

Name of Project: Transmission system for evacuation of power from Rajasthan REZ Ph -IV (Part-2: 5.5 GW) (Jaisalmer/Barmer Complex): Part F (By clubbing Part F1 & F2)

1. Establishment of 3x1500 MVA, 765/400 kV and 2x500 MVA, 400/220 kV Barmer-I Pooling Station along with 2x240 MVAR (765 kV) Bus Reactor and 2x125 MVAR (420 kV) Bus Reactor
 - 765/400 kV, 1500 MVA ICT- 3 Nos. (10x500 MVA including one spare unit)
 - 765 kV ICT bays-3 Nos.
 - 240 MVAR, 765 kV Bus Reactor-2 Nos. (7x80 MVAR including one spare unit)
 - 765 kV Bus reactor bays-2 Nos.
 - 765 kV line bays- 2 Nos. [for D/c line to Sirohi S/s]
 - 400/220 kV, 500 MVA ICT -2 Nos.
 - 400 kV ICT bays- 5 Nos.
 - 125 MVAR, 420 kV Bus Reactor-2 Nos.
 - 400 kV Bus reactor bays- 2 Nos.
 - 400 kV line bays - 2 Nos. [for D/c line to Fatehgarh-III (Section-2) PS]
 - 220 kV ICT bays- 2 Nos.
 - 220 kV line bays: 4 Nos. (for RE connectivity)
 - 220 kV BC (1 No.) and TBC (1 No.)

Future provisions: Space for

- 765/400 kV ICT along with bays- 3 Nos.
 - 765 kV line bays along with switchable line reactors – 4 Nos.
 - 765 kV Bus Reactor along with bay: 1 Nos.
 - 400 kV line bays –4 Nos.
 - 400 kV line bays along with switchable line reactor –4 Nos.
 - 400/220 kV ICT along with bay - 8 Nos.
 - 400 kV Bus Reactor along with bay: 1 No.
 - 400 kV Sectionalization bay: 2 sets
 - 220 kV line bays for Connectivity of RE Applications-10 Nos.
 - 220 kV Sectionalization bay: 3 sets
 - 220 kV BC (3 Nos.) and TBC (3 Nos.)
 - STATCOM (2x±300 MVAR) along with MSC (4x125 MVAR) and MSR (2x125 MVAR) along with two number 400 kV bays.
2. Fatehgarh-III (Section-2) PS – Barmer-I PS 400 kV D/c line (Quad)
 - 2 No. of 400 kV line bays at Fatehgarh-III (Section-2) PS
 3. Barmer-I PS– Sirohi PS 765 kV D/c line along with 240 MVAR switchable line reactor for each circuit at each end
 - 2 No. of 765 kV line bays at Sirohi PS
 - 765 kV, 240 MVAR switchable line reactors at Barmer-I PS – 2 Nos.
 - 765 kV, 240 MVAR switchable line reactors at Sirohi PS –2 Nos