Name of SPV: POWERGRID West Central Transmission Limited

(Formerly known as "Khavda V-A Power Transmission Limited")

Name of Project: Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8 GW): Part A

- 1. Establishment of 3000 MW, ± 800 kV KPS2 (HVDC) [LCC] terminal station (2x1500 MW) (Bipole-1) along with associated interconnections with 400 kV HVAC Switchyard
- 2. Establishment of 3000 MW, ± 800 kV Nagpur (HVDC) [LCC] terminal station (2x1500 MW) (Bipole-1) along with associated interconnections with 400 kV HVAC Switchyard
- 3. Establishment of 3000 MW, ± 800 kV KPS2 (HVDC) [LCC] terminal station (2x1500 MW) (Bipole-2) along with associated interconnections with 400 kV HVAC Switchyard
- 4. Establishment of 3000 MW, ± 800 kV Nagpur (HVDC) [LCC] terminal station (2x1500 MW) (Bipole-2) along with associated interconnections with 400 kV HVAC Switchyard
- 5. ±800 kV HVDC Bipole line (Hexa lapwing) between KPS2 (HVDC) and Nagpur (HVDC) (1200 km) (with Dedicated Metallic Return) (capable to evacuate 6000 MW with overload as specified)
- 6. Establishment of 6x1500 MVA, 765/400 kV ICTs at Nagpur S/s along with 2x330 MVAR (765 kV) & 2x125 MVAR, 420 kV bus reactors along with associated interconnections with HVDC Switchyard.
 - 765/400 kV, 1500 MVA ICT-6 (3 on each 400 kV section) (19 single phase units including one spare unit)
 - 765 kV ICT bays- 6 Nos.
 - 400 kV ICT bays- 6 Nos. (3 on each section)
 - 330 MVAR 765 kV bus reactor-2 Nos.
 - 125 MVAR 420 kV bus reactor-2 Nos. (one on each section)
 - 765 kV reactor bay- 2 Nos.
 - 765 kV line bay- 4 Nos.
 - 400 kV reactor bay- 2 Nos. (one on each section)
 - 400 kV Bus sectionaliser 1 Set
 - 110 MVAR, 765 kV, 1-ph reactor (spare unit for line/bus reactor) 1 No.

Future Provisions at Nagpur: Space for

- 765/400 kV, 1500 MVA ICT- 4 (1 on 400 kV bus section-II & 3 on future 400 kV bus section-III)
- 765 kV line bays along with switchable line reactors 10 Nos.
- 765 kV Bus Reactor along with bay: 2 No.
- 765 kV Sectionaliser bay: 1 -set
- 400 kV line bays along with switchable line reactor 12 Nos.
- 400 kV Bus sectionaliser- 1 Set

- 400/220 kV ICT along with bays -9 Nos. (3 Nos. on 400 kV bus sections II & 6 Nos. on future bus section-III)
- 400 kV Bus Reactor along with bay: 4 No. (1 each on 400 kV bus sections I & II and 2 on future 400 kV bus section-III)
- 220 kV line bays: 16 Nos.
- 220 kV Sectionalization bay: 2 set
- 220 kV BC & TBC: 3 Nos.
- 80 MVAR, 765 kV, 1-ph reactor (spare unit for line reactor)-1
- 7. LILO of Wardha Raipur 765 kV one D/c line (out of 2xD/c lines) at Nagpur
- 8. Installation of 240 MVAR switchable line reactor at Nagpur end on each ckt of Nagpur Raipur 765 kV D/c line
 - 240 MVAR, 765 kV switchable line reactors- 2 Nos. (at Nagpur end)
 - Switching equipment for 765 kV line reactor- 2 Nos. (at Nagpur end)
 - 80 MVAR, 765 kV, 1-ph reactor (spare unit for line reactor)-1 No.