

PROJECT DETAILS & GENERAL SPECIFICATION - PGCIL Ajmer and Chittorgarh S/s

SITE INFORMATION

	Particular	Details
a)	Owner	POWERGRID
b)	Customer	POWERGRID
c)	Project Title	Substation package-SS01 for extensions of 765kV Ajmer S/s and 765kV Chittorgarh S/s under green energy corridor ISTS(Parts B)
d)	Location	Ajmer-Rajasthan Chittorgarh-Rajasthan
e)	Transport Facilities	RAOD/TRAIN
SITE CONDITIONS		
a)	Max. ambient air temp.	50°C
b)	Min. ambient air temp.	0°C
c)	Max. design ambient temp.	50°C
d)	Design reference temp.	50°C
e)	Average Humidity	Max. 100%
f)	Special corrosion conditions	No
g)	Solar Radiation	1.2kW/sqmtr
h)	Atmospheric UV radiation	High
i)	Altitude above sea level	Less than 1000meter
j)	Pollution Severity	High Pollution (25mm/kV)
k)	Seismic Zone	As per the seismic zone defined in the relevant BIS but not less than 0.3g horizontal
WIND DATA		
	Wind velocity	As per IS
	Average No. of thunderstorm days per annum	As per IS
Main Electrical Parameters:		
	Fault Levels:	For both Ajmer and Chittorgarh 765kV: 40kA for 1 sec
	Creepage Distance	25mm/kV

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PROJECT DETAILS & GENERAL SPECIFICATION

SITE INFORMATION

	Particular	Details
a)	Owner	POWERGRID
b)	Customer	POWERGRID
c)	Project Title	Substation Package – Substation Package -SS01 for Construction of 765/400/220kV Bhuj Pool (New) S/S and Extension of 765kV Banaskantha S/S under Green Energy Corridors: Inter-State Transmission Scheme (ISTS) – Part C.
d)	Location	Bhuj, Gujrat Banaskantha , Gujrat
e)	Transport Facilities	ROAD/TRAIN, For Bhuj Nearest Rail Head: Bhuj ROAD/TRAIN, For Banaskantha Nearest Rail Head: Palanpur
SITE CONDITIONS		
a)	Max. ambient air temp.	50°C
b)	Min. ambient air temp.	0°C
c)	Max. design ambient temp.	50°C
d)	Design reference temp.	50°C
e)	Average Humidity	Max. 100%
f)	Special corrosion conditions	No
g)	Solar Radiation	1.2kW/sqmtr
h)	Atmospheric radiation UV	High
i)	Altitude above sea level	Less than 1000meter

j)	Pollution Severity	High Pollution level (31mm/kV) For BHUJ High Pollution (25mm/kV) for Banaskantha
k)	Seismic Zone	As per the seismic zone defined in the relevant BIS / IEC-62271-300 but not less than 0.3g horizontal
WIND DATA		
	Wind velocity	As per IS
	Average No. of thunderstorm days per annum	As per IS
Main Electrical Parameters:		
	Fault Levels:	765kV: 50kA for 1 sec 400kV: 63kA for 1 sec 220kV: 40kA for 1 sec
	Creepage Distance	31mm/kV for 765kV/400kV/220kV BHUJ S/S 25mm/kV for Extn. of 765kV Banaskantha S/S

SECTION-3

PROJECT DETAILS & GENERAL SPECIFICATION

SITE INFORMATION

	Particular	Details
a)	Owner	POWERGRID
b)	Customer	POWERGRID
c)	Project Title	765kV/400kV/220kV Banaskantha (New) Substation and Extn. of 400kV Sankhari (GETCO) Substation
d)	Location for Banaskantha site.	Village – MUDETHA , Near BHILDI - 385530 Taluka – Deesa, Dist. Banaskantha (Gujarat)
e)	Location for Sankhari site	Village – VELODA, Near Melusan Dist. Patan (Gujarat)
f)	Transport Facilities	RAOD/TRAIN, For both Site Nearest Rail Head: Palanpur
SITE CONDITIONS		
a)	Max. ambient air temp.	50°C
b)	Min. ambient air temp.	0°C
c)	Max. design ambient temp.	50°C
d)	Design reference temp.	50°C
e)	Average Humidity	Max. 100%
f)	Special corrosion conditions	No
g)	Solar Radiation	1.2kW/sqmtr
h)	Atmospheric UV radiation	High
i)	Altitude above sea level	Less than 1000meter
j)	Pollution Severity	High Polution (25mm/kV)
k)	Seismic Zone	As per the seismic zone defined in the relevant BIS but not less than 0.3g horrrizontal
WIND DATA		
	Wind velocity	As per IS
	Average No. of thunderstorm days per annum	As per IS

	Main Electrical Parameters:	
	Fault Levels:	For Banaskantha 765kV: 50kA for 1 sec 400kV: 63kA for 1 sec 220kV: 40kA for 1 sec For Sankhari 400kV: 40kA for 3 sec
	Creepage Distance	25mm/kV