

Element wise Outage Details of Fatehgarh – Bhadla Transmission Limited for FY 2023 - 24

Element Name	Outage		Restoration		Duration of Outage Attributable to						% Availability
	Date	Time	Date	Time	Inter-State Transmission LICENCE	OTHERS	System constraint/ Natural calamity/ Militancy	DEEMED AVAILABLE	Reason of Outage		
125MVAR, 400kV Bus Reactor at Fatehgarh SS	1-Apr-23	0:00:00	16-Apr-23	19:30:00	0:00:00	0:00:00	0:00:00	379:30:00	Bus Reactor switched out on 8th Feb as per NRLDC instruction for Grid Voltage regulation .	100	
125MVAR, 400kV Bus Reactor at Fatehgarh SS	16-Apr-23	23:12:00	30-Apr-23	23:59:00	0:00:00	0:00:00	0:00:00	336:47:00	Bus Reactor switched out on 16th April as per NRLDC instruction for Grid Voltage regulation .		
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-1	1-May-23	13:23:00	1-May-23	13:53:00	0:00:00	0:00:00	0:30:00	0:00:00	Tripped on Over Voltage protection.		
125MVAR, 400kV Bus Reactor at Fatehgarh SS	1-May-23	0:00:00	31-May-23	23:59:00	0:00:00	0:00:00	0:00:00	743:59:00	Bus Reactor switched out on 16th April 2023 as per NRLDC instruction for Grid Voltage regulation .		
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-1	9-May-23	12:57:00	9-May-23	13:13:00	0:00:00	0:00:00	0:16:00	0:00:00	Tripped on Over Voltage protection.		
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-1	12-May-23	23:03:00	13-May-23	0:29:00	0:00:00	1:26:00	0:00:00	0:00:00	Shutdown taken for flex logic modification in D60 relay at Bhadla SS		
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-1	13-May-23	19:11:00	13-May-23	20:21:00	0:00:00	1:10:00	0:00:00	0:00:00	Shutdown taken for carrying out implementation of appropriate flexi-logic in D60 relay at Bhadla S/S.		
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-2	13-May-23	21:44:00	14-May-23	5:21:00	0:00:00	0:00:00	0:00:00	7:37:00	R-B Fault, Fault current 3.7kA, Dist. 132km from Bhadla. Weather was heavy rain and storm. Sarpanch Letter and newspaper cutting attached.		

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400kV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-1	15-May-23	11:52:00	15-May-23	14:39:00	0:00:00	0:00:00	2:47:00	0:00:00	Tripped on Over Voltage protection.	99.468	
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-1	15-May-23	11:52:00	15-May-23	18:38:00	0:00:00	0:00:00	6:46:00	0:00:00	Tripped on Over Voltage protection.		
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-1	25-May-23	21:16:00	25-May-23	21:56:00	0:00:00	0:00:00	0:00:00	0:40:00	Y-N Fault, Dist. 30.5km, Fault current 8.0kA from Bhadla & Dist. 121km, Fault current 1.87kA from Fatehgarh_2. Weather was heavy wind storm. Sarpanch Letter and newspaper cutting attached.		
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-2	25-May-23	21:16:00	25-May-23	22:32:00	0:00:00	0:00:00	0:00:00	1:16:00	B-N Fault, Dist. 21.56km, Fault current 8.0kA from Bhadla & Dist. 155km from Fatehgarh_2. Weather was heavy wind storm. Sarpanch Letter and newspaper cutting attached.		
400kV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-2	26-May-23	18:49:00	26-May-23	20:07:00	0:00:00	1:18:00	0:00:00	0:00:00	Shutdown taken for Flexi logic implementation in D60 relays at Fatehgarh II (PGCIL) end		
400kV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-1	28-May-23	15:17:00	28-May-23	17:46:00	0:00:00	0:00:00	0:00:00	2:29:00	Ckt tripped due to Zone -1 protection operation ,R-Ph Fault distance- 3.18 km & Fault current-6.027 KA .Tripped during heavy wind storm. Sarpanch Letter and newspaper cutting attached.		
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-1	30-May-23	2:02:00	30-May-23	4:15:00	0:00:00	2:13:00	0:00:00	0:00:00	Tripped on Y-N fault during heavy windstorm and rain. Fategarh_2- 32.9KM/6.87KA. Line Tripping in PGCIL Section.		
125MVAR, 400kV Bus Reactor at Fatehgarh SS	1-Jun-23	0:00:00	30-Jun-23	23:59:00	0:00:00	0:00:00	0:00:00	719:59:00	Bus Reactor switched out on 16th April 2023 as per NRLDC instruction for Grid Voltage regulation .		

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	Date	Time	Date	Time	Inter-State Transmission LICENCE	OTHERS	System constraint/ Natural calamity/ Militancy	DEEMED AVAILABLE	Reason of Outage	
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL)	6-Jun-23	16:43:00	6-Jun-23	18:41:00	0:00:00	0:00:00	1:58:00	0:00:00	R-N fault, Dist. 28.8km, Fault current 8.50kA from Bhadla. Fault under Adani jurisdiction. Line tripped during thunderstorm, windstorm and rain in the region.	99.2
ckt-1 400kV Fatehgarh (PS) - Fatehgarh II (PGCIL)	6-Jun-23	17:21:00	6-Jun-23	22:58:00	5:37:00	0:00:00	0:00:00	0:00:00	line was hand tripped due to heavy sparking & hotspot observed in line isolator at Fatehgarh Pooling(FBTL) SS	
ckt-2 400kV Fatehgarh (PS) - Fatehgarh II (PGCIL)	6-Jun-23	17:18:00	6-Jun-23	18:41:00	0:00:00	0:00:00	1:23:00	0:00:00	Phase to earth fault B-N , Zone-1 , Distance-4.18KM from Fatehgarh Pooling(FBTL). Line tripped during heavy wind and rain weather	
ckt-1 400kV Bhadla II (PGCIL)-Bhadla I (PGCIL)	20-Jun-23	18:20:00	20-Jun-23	22:07:00	0:00:00	3:47:00	0:00:00	0:00:00	Emergency S/D for attending Hotspot in line isolator at Bhadla -1(PG) .(Shutdown taken by PGCIL)	
ckt-2 400kV Bhadla II (PGCIL)-Bhadla I (PGCIL)	20-Jun-23	22:47:00	21-Jun-23	1:23:00	0:00:00	2:36:00	0:00:00	0:00:00	Emergency S/D for attending Hotspot in line isolator at Bhadla -1(PG) .(Shutdown taken by PGCIL)	
ckt-1 125MVAR, 400kV Bus Reactor at Fatehgarh SS	1-Jul-23	0:00:00	21-Jul-23	21:33:00	0:00:00	0:00:00	501:33:00	0:00:00	Bus Reactor switched out as per NRLDC instruction for Grid Voltage regulation .	100
125MVAR, 400kV Bus Reactor at Fatehgarh SS	22-Jul-23	8:15:00	26-Jul-23	20:42:00	0:00:00	0:00:00	108:27:00	0:00:00	Bus Reactor switched out as per NRLDC instruction for Grid Voltage regulation .	
125MVAR, 400kV Bus Reactor at Fatehgarh SS	27-Jul-23	12:17:00	30-Jul-23	3:15:00	0:00:00	0:00:00	62:58:00	0:00:00	Bus Reactor switched out as per NRLDC instruction for Grid Voltage regulation .	

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125MVAR, 400kV Bus Reactor at Fatehgarh SS	30-Jul-23	6:50:00	31-Jul-23	23:59:00	0:00:00	0:00:00	41:09:00	0:00:00	Bus Reactor switched out as per NRLDC instruction for Grid Voltage regulation .		
400/220kV ICT-2 at Morena SS	23-Aug-23	11:08:00	23-Aug-23	13:26:00	2:18:00	0:00:00	0:00:00	0:00:00	Outage taken for Annual Maintenance Work. Readiness mail has been sent at 12:31 Hrs. on 23.08.2023 .Already 30 minutes is added in the scope of Licensee for code process. Line was charged at 13:26 Hrs. on 23.08.2023. Discharging Code- WR-1938 Charging Code- WR-1946	100	
125MVAR, 400kV Bus Reactor at Fatehgarh SS	1-Sep-23	0:00:00	30-Sep-23	23:59:00	0:00:00	0:00:00	0:00:00	719:59:00	Bus Reactor switched out on 30th July 2023 as per NRLDC instruction for Grid Voltage regulation .	100	
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-1	20-Sep-23	19:10:00	20-Sep-23	20:31:00	0:00:00	1:21:00	0:00:00	0:00:00	Manually hand tripped due to the R-phase pole of Switchable Line Reactor (SWLR) CB got stuck (R1 pole stuck) at Fatehgarh_2 PGCIL.		
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-1	21-Sep-23	19:01:00	22-Sep-23	4:06:00	0:00:00	0:00:00	0:00:00	9:05:00	Ladder logic commissioning with spare reactor logic scheme checking for Line Reactor. Planned outage proposed by POWERGRID		
400kV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-2	23-Sep-23	15:20:00	23-Sep-23	16:19:00	0:00:00	0:00:00	0:00:00	0:59:00	M/s ACME had availed shutdown of 400KV Bus-1 for first time charging readiness of 407 ACME bay at FBTL Fatehgarh SS so 404 main bay of the ckt in out condition . Bus-1 relay protection checking was being performed by M/s ACME through injecting secondary current from panel terminal block 404 CT (use for bus bar relay). Unwanted End fault protection of 404 bay operated while bus-1 relay differential protection checking and due to this Tie 405 Master trip relay operated and DT sent to remote end. M/s ACME did not ensure blocking of End fault Protection 404 bay before bus relay differetial testing which resulted unwated tripping of ckt.		
765kV - LILO - Pune (GIS) - Arungabad Ckt-2	1-Sep-23	0:00:00	22-Sep-23	7:12:00	0:00:00	0:00:00	0:00:00	511:12:00	MOHV and to convert L/R as B/R/Manually opened due to High Voltage. WRLDC Opening Code- 7/2544 NLDC Opening Code-7/2436 WRLDC charging code-9/2131, NLDC Charging Code-9/1971		

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400kV Bus Reactor at Morena SS	4-Sep-23	11:39:00	16-Sep-23	14:51:00	0:00:00	0:00:00	0:00:00	291:12:00	For Grid Voltage regulation Discharging code- WR - 336 Charging Code- WR - 1569	
765kV - LILO - Pune (GIS) - Arungabad Ckt-2	22-Sep-23	14:02:00	28-Sep-23	8:21:00	0:00:00	0:00:00	0:00:00	138:19:00	MOHV and to convert L/R as B/R/Manually opened due to High Voltage. WRLDC Opening Code- 9/ 2173 NLDC Opening Code-9/2007 WRLDC charging code-7/2734, NLDC Charging Code-7/2503	
765kV - LILO - Pune (GIS) - Arungabad Ckt-2	28-Sep-23	20:46:00	30-Sep-23	7:51:00	0:00:00	0:00:00	0:00:00	35:05:00	MOHV and to convert L/R as B/R/Manually opened due to High Voltage. WRLDC Opening Code- 9/2802 NLDC Opening Code-9/2555 WRLDC charging code-9/2901, NLDC Charging Code-9/2648	
765kV - LILO - Pune (GIS) - Arungabad Ckt-2	30-Sep-23	20:08:00	30-Sep-23	23:59:00	0:00:00	0:00:00	0:00:00	3:51:00	MOHV and to convert L/R as B/R/Manually opened due to High Voltage. WRLDC Opening Code- 9/2981, NLDC Opening Code-9/2718, WRLDC charging code-, NLDC Charging Code-	
125MVAR, 400kV Bus Reactor at Fatehgarh SS	1-Jan-23	0:00:00	31-Jan-23	23:59:00	0:00:00	0:00:00	0:00:00	743:59:00	Bus Reactor switched out on 1st Nov as per NRLDC instruction for Grid Voltage regulation .	
765kV Fatehgarh II (PGCIL)- Bhadla I (PGCIL) ckt-1	2-Jan-23	18:32:00	2-Jan-23	21:52:00	0:00:00	3:20:00	0:00:00	0:00:00	Shutdown taken by Bhadla PGCIL for attending the damaged operating rod of line isolator (Y-phase) at Bhadla end.	
765kV Fatehgarh II (PGCIL)- Bhadla I (PGCIL) ckt-1	11-Jan-23	18:14:00	11-Jan-23	21:52:00	0:00:00	3:38:00	0:00:00	0:00:00	For bushing erection in coupling transformer (OCC-202) at Bhadla-II PGCIL. Shutdown proposed by PGCIL	
400kV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-1	14-Jan-23	14:55:00	14-Jan-23	16:26:00	0:00:00	0:00:00	1:31:00	0:00:00	Line tripped due to over voltage protection operated at 400KV Fatehgarh Pooling Sub-station	

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400KV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-2	14-Jan-23	15:18:00	14-Jan-23	16:27:00	0:00:00	0:00:00	1:09:00	0:00:00	Line tripped due to over voltage protection operated at 400KV Fatehgarh Pooling Sub-station	100
765KV Fatehgarh II (PGCIL)- Bhadla I (PGCIL) ckt-1	14-Jan-23	15:18:00	14-Jan-23	16:51:00	0:00:00	0:00:00	1:33:00	0:00:00	Line tripped due to over voltage protection operated at Bhadla II (PGCIL) and DT received at Bhadla I (PGCIL)	
400KV Bhadla II (PGCIL)- Bhadla I (PGCIL) ckt-2	14-Jan-23	15:18:00	14-Jan-23	17:24:00	0:00:00	0:00:00	2:06:00	0:00:00	Line tripped due to over voltage protection operated at Bhadla II (PGCIL) and DT received at Bhadla I (PGCIL)	
765KV Fatehgarh II (PGCIL)- Bhadla I (PGCIL) ckt-1	14-Jan-23	14:55:00	14-Jan-23	15:57:00	0:00:00	0:00:00	1:02:00	0:00:00	Line tripped due to over voltage protection operated at Fatehgarh-2 PGCIL	
400KV Bhadla II (PGCIL)- Bhadla I (PGCIL) ckt-2	14-Jan-23	15:18:00	14-Jan-23	19:14:00	0:00:00	0:00:00	3:56:00	0:00:00	Line tripped due to over voltage protection operated at Fatehgarh-2 PGCIL	
765KV Fatehgarh II (PGCIL)- Bhadla I (PGCIL) ckt-1	16-Jan-23	17:02:00	16-Jan-23	18:50:00	0:00:00	0:00:00	1:48:00	0:00:00	Line tripped on Over Voltage Protection operated at Bhadla(822.7 KV) and DT received at Fatehgarh_II(PG)	100
125MVAR, 400KV Bus Reactor at Fatehgarh SS	1-Oct-23	0:00:00	31-Oct-23	23:59:00	0:00:00	0:00:00	0:00:00	743:59:00	Bus Reactor switched out on 30th July 2023 as per NRLDC instruction for Grid Voltage regulation .	
765KV Fatehgarh II (PGCIL)- Bhadla I (PGCIL) ckt-2	10-Oct-23	17:34:00	11-Oct-23	5:14:00	0:00:00	11:40:00	0:00:00	0:00:00	S/D taken by Fatehgarh II (PGCIL) for Ladder logic commissioning with spare reactor logic scheme checking.	

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125MVAR, 400kV Bus Reactor at Fatehgarh SS	1-Nov-23	0:00:00	30-Nov-23	23:59:00	0:00:00	0:00:00	0:00:00	719:59:00	Bus Reactor switched out on 30th July 2023 as per NRLDC instruction for Grid Voltage regulation .	100	
400kV Bhadla II (PGCIL)- Bhadla I (PGCIL) ckt-1	13-Nov-23	23:16:00	14-Nov-23	3:02:00	0:00:00	3:46:00	0:00:00	0:00:00	Planned shutdown taken by PGCIL for Installation of Bird Diverter		
125MVAR, 400kV Bus Reactor at Fatehgarh SS	1-Feb-24	0:00:00	29-Feb-24	23:59:00	0:00:00	0:00:00	0:00:00	695:59:00	As per NRLDC instruction Grid the 125MVAR, 400kV Bus Reactor at Fatehgarh SS was switched out on 1st January 2024 for Voltage regulation.	100	
400kV Bhadla II (PGCIL)- Bhadla I (PGCIL) ckt-1	25-Feb-24	22:11:00	26-Feb-24	0:50:00	0:00:00	0:00:00	0:00:00	2:39:00	400kV Bhadla II (PGCIL)- Bhadla I (PGCIL) ckt-1 Planned shutdown was taken by Bhadla-II PGCIL for Installation of Bird Diverter		
400kV Bhadla II (PGCIL)- Bhadla I (PGCIL) ckt-2	26-Feb-24	0:52:00	26-Feb-24	5:33:00	0:00:00	0:00:00	0:00:00	4:41:00	400kV Bhadla II (PGCIL)- Bhadla I (PGCIL) ckt-2 Planned shutdown was taken by Bhadla-II PGCIL for Installation of Bird Diverter		
125MVAR, 400kV Bus Reactor at Fatehgarh SS	1-Mar-24	0:00:00	23-Mar-24	19:57:00	0:00:00	0:00:00	0:00:00	547:57:00	Bus Reactor switched out on 1st January 2024 as per NRLDC instruction for Grid Voltage regulation .	100	
125MVAR, 400kV Bus Reactor at Fatehgarh SS	24-Mar-24	9:42:00	31-Mar-24	18:40:00	0:00:00	0:00:00	0:00:00	176:58:00	Bus Reactor switched out on 24th March 2024 as per NRLDC instruction for Grid Voltage regulation .		

II

Elements where restoration time has exceeded the standards specified in Regulation 5 (b)

Element Name	Restoration time as specified in Regulation 5 (b) (in days)	Actual restoration time (in days)
NIL	NIL	NIL
NIL	NIL	NIL
NIL	NIL	NIL

III

Details of compensation paid by the inter-State transmission licensee

Element Name	Violation of Regulation 5 (a)		Violation of Regulation 5 (b)		Compensation paid (in Rs.)
	% Availability rescribed	Actual % Availability	Restoration time prescribed (in days)	Actual restoration time (in days)	
NIL	NIL	NIL	NIL	NIL	NIL
NIL	NIL	NIL	NIL	NIL	NIL
NIL	NIL	NIL	NIL	NIL	NIL