

**Element wise Outage Details of Fatehgarh – Bhadla Transmission Limited for FY 2022 - 23**

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		
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-1	2-May-22	11:06:00	2-May-22	11:50:00	0:00:00	0:00:00	0:44:00	0:00:00	Line Tripped on over voltage protection operation at Fatehgarh II (PGCIL) SS.	100	
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-1	20-May-22	12:31:00	20-May-22	15:03:00	0:00:00	0:00:00	2:32:00	0:00:00	Line Tripped on over voltage protection operation at Fatehgarh II (PGCIL) SS.		
125MVAR, 400kV Bus Reactor at Fatehgarh SS	16-Jun-22	19:16:00	16-Jun-22	20:09:00	0:53:00	0:00:00	0:00:00	0:00:00	Outage taken for online CSD commissioning.		99.982
400kV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-1	10-Aug-22	1074808:48:00	10-Aug-22	1074809:09:00	0:00:00	0:00:00	0:42:00	0:00:00	Manual hand tripped at fatehgarh_2 (PG) end. DT received at FBTL Fatehgarh Pooling SS	99.982	
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-1	11-Aug-22	1074827:23:00	11-Aug-22	1074831:26:00	0:00:00	0:00:00	8:06:00	0:00:00	Line tripped on overvoltage protection		
400kV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-1	11-Aug-22	1074827:23:00	11-Aug-22	1074831:37:00	0:00:00	0:00:00	8:28:00	0:00:00	DT received at FBTL Fatehgarh Pooling SS from remote end Fatehgarh-2 (PGCIL).		
400kV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-1	11-Aug-22	1074827:23:00	11-Aug-22	1074831:49:00	0:00:00	0:00:00	8:52:00	0:00:00	DT received at FBTL Fatehgarh Pooling SS from remote end Fatehgarh-2 (PGCIL).		
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-2	11-Aug-22	1074827:23:00	11-Aug-22	1074832:16:00	0:00:00	0:00:00	9:46:00	0:00:00	Line tripped on overvoltage protection		

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400kV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-1	20-Aug-22	1075049:56:00	20-Aug-22	1075052:12:00	0:00:00	4:32:00	0:00:00	0:00:00	Shutdown taken by remote end Fatehgarh-2 (PG) for Balance construction work	100	
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-2	4-Sep-22	0:19:00	4-Sep-22	6:18:00	0:00:00	0:00:00	0:00:00	5:59:00	Emergency shutdown was taken by Bhadla(PGCIL) for 765kV Bus-1 Jumper tightness at Bhadla SS	99.992	
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-1	11-Sep-22	12:22:00	11-Sep-22	12:57:00	0:00:00	0:00:00	0:35:00	0:00:00	Line tripped on overvoltage protection		
400kV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-1	12-Sep-22	17:02:00	12-Sep-22	20:47:00	0:00:00	0:00:00	3:45:00	0:00:00	Ckt tripped due Phase to earth fault R-N , Dist. 3.5km, Fault current 8.133kA from Fatehgarh Pooling(FBTL). (Note- Weather was rainy and storm during tripping event) IMD letter, Sarpanch letter & News paper cutting attcahed.		
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-1	17-Sep-22	10:14:00	17-Sep-22	10:49:00	0:00:00	0:00:00	0:35:00	0:00:00	Line tripped on over voltage (As per PMU 822KV).		
125MVAR, 400kV Bus Reactor at Fatehgarh SS	1-Oct-22	0:00:00	11-Oct-22	15:50:00	0:00:00	0:00:00	0:00:00	255:50:00	Bus Reactor switched out on 13th July and switched in on 11th Oct as per NRLDC instruction for Grid Voltage regulation .	99.992	
400kV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-2	11-Oct-22	16:14:00	11-Oct-22	18:12:00	0:00:00	1:58:00	0:00:00	0:00:00	Emergency shutdown taken by Fatehagarh-2 PGCIL to remove the foreign material (tarpaulin) from top conductor between tower no. 001 - 002, to avoid tripping of line.		
400kV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-2	12-Oct-22	19:38:00	12-Oct-22	22:42:00	0:00:00	3:04:00	0:00:00	0:00:00	Emergency shutdown taken by Fatehagarh-2 for attending hot-spot at 418-89L, R phase isolator at Fatehgarh(2) end.		

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125MVAR, 400kV Bus Reactor at Fatehgarh SS	12-Oct-22	8:59:00	31-Oct-22	21:47:00	0:00:00	0:00:00	0:00:00	468:48:00	Bus Reactor switched out and switched in as per NRLDC instruction for Grid Voltage regulation .	100
400kV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-1	14-Oct-22	20:24:00	14-Oct-22	23:27:00	0:00:00	3:03:00	0:00:00	0:00:00	Emergency shutdown taken by Fatehagarh-2 PGCIL to attend hot spot (temp. 125 deg.C) on Y-phase Line Isolator (421-89L) at Fatehgarh-2(PG).	
125MVAR, 400kV Bus Reactor at Fatehgarh SS	1-Nov-22	0:50:00	30-Nov-22	23:59:00	0:00:00	0:00:00	719:09:00	0:00:00	Bus Reactor switched out on 1st Nov as per NRLDC instruction for Grid Voltage regulation.	
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-1	10-Nov-22	16:57:00	11-Nov-22	2:39:00	0:00:00	9:42:00	0:00:00	0:00:00	Shutdown was taken by PGCIL Fatehgarh -2 SS for re-fixing of dislocated bird diverters	
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-1	11-Nov-22	16:48:00	12-Nov-22	4:23:00	0:00:00	11:35:00	0:00:00	0:00:00	Shutdown was taken by PGCIL Fatehgarh -2 SS for re-fixing of dislocated bird diverters	
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-2	12-Nov-22	17:23:00	12-Nov-22	23:35:00	0:00:00	6:12:00	0:00:00	0:00:00	Shutdown was taken by PGCIL Fatehgarh -2 SS for re-fixing of dislocated bird diverters	
765kV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-2	13-Nov-22	16:34:00	13-Nov-22	23:49:00	0:00:00	7:15:00	0:00:00	0:00:00	Shutdown was taken by PGCIL Fatehgarh -2 SS for re-fixing of dislocated bird diverters	
400kV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-1	14-Nov-22	17:21:00	14-Nov-22	23:03:00	0:00:00	5:42:00	0:00:00	0:00:00	Shutdown was taken by PGCIL Fatehgarh -2 SS for re-fixing of dislocated bird diverters	

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400KV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-1	15-Nov-22	17:01:00	15-Nov-22	23:54:00	0:00:00	6:53:00	0:00:00	0:00:00	Shutdown was taken by PGCIL Fatehgarh -2 SS for re-fixing of dislocated bird diverters	100
400KV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-2	16-Nov-22	17:08:00	16-Nov-22	23:34:00	0:00:00	6:26:00	0:00:00	0:00:00	Shutdown was taken by PGCIL Fatehgarh -2 SS for re-fixing of dislocated bird diverters	
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	
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	
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)	

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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)	100
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)	
125MVAR, 400KV Bus Reactor at Fatehgarh SS	1-Feb-23	0:00:00	7-Feb-23	17:49:00	0:00:00	0:00:00	0:00:00	161:49:00	Bus Reactor switched in on 7th Feb as per NRLDC instruction for Grid Voltage regulation .	100
125MVAR, 400KV Bus Reactor at Fatehgarh SS	8-Feb-23	12:25:00	28-Feb-23	23:59:00	0:00:00	0:00:00	0:00:00	491:34:00	Bus Reactor switched out on 8th Feb as per NRLDC instruction for Grid Voltage regulation .	
765KV Fatehgarh II (PGCIL)-Bhadla I (PGCIL) ckt-2	9-Feb-23	12:29:00	9-Feb-23	20:09:00	0:00:00	0:00:00	7:40:00	0:00:00	Line tripped due to over voltage protection operated	
400KV Fatehgarh (PS) - Fatehgarh II (PGCIL) ckt-2	9-Feb-23	12:29:00	9-Feb-23	15:57:00	0:00:00	0:00:00	3:28:00	0:00:00	Line tripped due to over voltage protection operated at 400KV Fatehgarh Pooling Sub-station	

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125MVAR, 400kV Bus Reactor at Fatehgarh SS	1-Mar-23	0:00:00	31-Mar-23	23:59:00	0:00:00	0:00:00	0:00:00	743:59:00	Bus Reactor switched out on 8th Feb as per NRLDC instruction for Grid Voltage regulation .		100
400kV Bhadla II (PGCIL)-Bhadla I (PGCIL)	10-Mar-23	17:52:00	11-Mar-23	2:03:00	0:00:00	8:11:00	0:00:00	0:00:00	Planned outage for Coupling transformer testing for upcoming STATCOM at Bhadla 2 by PGCIL. (OCC-204)		
400kV Bhadla II (PGCIL)-Bhadla I (PGCIL)	29-Mar-23	17:35:00	29-Mar-23	19:56:00	0:00:00	2:21:00	0:00:00	0:00:00	Emergency outage to attend hot spot on LA jumper at Bhadla_2 (hot-spot temp. >130 deg.C).		

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