

SCHEDULE-I- AC Transmission Line / ICT / Static Var Compensator / Series Compensator/HVDC (Back to Back Stations and Bi-Pole Links)/ Line Reactors/ Bus Reactors Outage Details for the FY April-2023- March-2024.

Element Name	Outage		Restoration		Duration of Outage Attributable to				Reason of Outage	Availability (%)
	Date	Time	Date	Time	Inter-State Transmission Licensee	Others	System Constraint/Natural Calamity/ Militancy	Deemed Available		
					Hrs:Min	Hrs:Min	Hrs:Min	Hrs:Min		
Apr-23										
400kV PIRANA-PIRANA(PG) II	01/Apr/23	19:01	01/Apr/23	21:59	00:00	02:58	00:00	00:00	Main-2 relay replacement work at Pirana PGCIL end	99.63%
400kV PIRANA-PIRANA(PG) II	04/Apr/23	20:26	04/Apr/23	21:39	00:00	01:13	00:00	00:00	Main-2 relay replacement work at Pirana PGCIL end	
400kV UNOSUGEN-PIRANA	08/Apr/23	12:48	08/Apr/23	18:41	05:53	00:00	00:00	00:00	Tripping:Due to Fire in the farm near Tower 187.	
400kV SUGEN-VAPI	10/Apr/23	13:06	10/Apr/23	13:57	00:00	00:50	00:00	00:00	Line tripped on distance protection	
400kV PIRANA-PIRANA(PG) I	15/Apr/23	20:09	16/Apr/23	00:18	00:00	04:09	00:00	00:00	Hot spot attending work (B Phase 89B BUS-2 Isolator)	
400kV SUGEN-PIRANA	23/Apr/23	06:12	23/Apr/23	06:12	00:00	00:00	00:00	00:00	Auto Reclose Operated Successfully	
May-23										
400kV UNOSUGEN-PIRANA	18/May/23	04:44	18/May/23	05:53	00:00	01:09	00:00	00:00	Line Tripped from UNOSUGEN:Auto Reclose Operated unsuccessfull from TPL UNOSUGEN end and Line Charged from TPL Pirana end .	100%
Jun-23										
400kV PIRANA-PIRANA(PG) I	06/Jun/23	00:53	06/Jun/23	04:42	00:00	03:49	00:00	00:00	Hot spot attending work in Y Phase 89B Pantograph Isolator Fix Connector towards 89A + Dist. M2 Relay Replacement Work at TPL Pirana.	100%
400kV SUGEN-VAPI	08/Jun/23	09:13	08/Jun/23	15:56	00:00	06:43	00:00	00:00	Gantry offline Wasing Job & hot spot attending job at bus-A Isolator at SUGEN end.	
400kV SUGEN-JHANOR	09/Jun/23	12:20	09/Jun/23	16:17	00:00	03:57	00:00	00:00	Gantry offline Wasing Job & hot spot attending job at bus-B Isolator at SUGEN end.	
400kV SUGEN-PIRANA	12/Jun/23	08:50	12/Jun/23	18:40	00:00	09:50	00:00	00:00	Line Isolator M & R + Bay tightness work + Reactor Oil leakage attending work + HVWS system checking work at TPL Pirana.	
Jul-23										
400kV SUGEN - UNOSUGEN	18/Jul/23	08:13	18/Jul/23	12:07	00:00	03:54	00:00	00:00	Line isolated for bus isolator hot spot attending job	100%
400kV SUGEN - UNOSUGEN	29/Jul/23	09:56	29/Jul/23	16:55	00:00	06:59	00:00	00:00	For line isolator & wave trap hot spot attending job.	
Aug-23										
400kV UNOSUGEN-PIRANA	06/Aug/23	09:00	06/Aug/23	15:45	00:00	06:45	00:00	00:00	Relay communication card replacement + line isolator hotspot attending work by TPL Sugen	100%
Sep-23										
400kV UNOSUGEN-PIRANA	07/Sep/23	03:29	07/Sep/23	04:03	00:00	00:33	00:00	00:00	UnoSugen - pirana line tripped from pirana end on y phase distance protection. Sugen end line a/r operated successfully. Line remained charged from Sugen end.	100%
400kV PIRANA-PIRANA(PG) I	30/Sep/23	05:22	30/Sep/23	09:08	00:00	03:46	00:00	00:00	Hot spot attending work at TPL Pirana end.	
Oct-23										
400kV SUGEN - UNOSUGEN	01/Oct/23	09:22	01/Oct/23	18:42	00:00	09:20	00:00	00:00	Isolator 404-89-B hotspot attending at SUGEN end by TPL	100%
400kV SUGEN-JHANOR	19/Oct/23	12:06	19/Oct/23	16:56	00:00	04:50	00:00	00:00	ABT meter replacement work at SUGEN end by TPL.	
400kV SUGEN-PIRANA	20/Oct/23	09:52	20/Oct/23	15:40	00:00	05:48	00:00	00:00	ABT meter replacement work at SUGEN end by TPL.	
400kV UNOSUGEN-PIRANA	25/Oct/23	08:25	25/Oct/23	17:32	00:00	09:07	00:00	00:00	ABT meter replacement work at SUGEN end by TPL.	
Nov-23										
400kV SUGEN-PIRANA	12/Nov/23	00:46	13/Nov/23	12:51	00:00	00:00	00:00	36:05	Line taken out for voltage control	
400kV SUGEN-PIRANA	13/Nov/23	19:37	16/Nov/23	10:00	00:00	00:00	00:00	62:23	Line taken out for voltage control	
400kV SUGEN - UNOSUGEN	13/Nov/23	03:58	13/Nov/23	05:45	00:00	00:00	00:00	01:46	Line Tripped on over voltage.	
400kV SUGEN-VAPI	13/Nov/23	03:58	13/Nov/23	06:23	00:00	00:00	00:00	02:25	Line Tripped on over voltage.	

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	Date	Time	Date	Time	Inter-State Transmission Licensee	Others	System Constraint/Natural Calamity/ Militancy	Deemed Available		
					Hrs:Min	Hrs:Min	Hrs:Min	Hrs:Min		
400kV SUGEN - UNOSUGEN	13/Nov/23	12:59	13/Nov/23	13:59	00:00	01:00	00:00	00:00	Emergency Outage Requested To SLDC For SUGEN UNOSUGEN Line to reboot the Relay.	100%
400kV PIRANA-PIRANA(PG) I	17/Nov/23	14:34	17/Nov/23	16:49	00:00	02:15	00:00	00:00	Main-1 Distance protection relay replacement at TPL Pirana	
400kV SUGEN - UNOSUGEN	18/Nov/23	09:05	18/Nov/23	17:41	00:00	08:36	00:00	00:00	Bus-1 Isolator Hotspot ,ABT Meter Job, 400kV Bus-01 Outage code: WR/1912 & Normalisation code: WR/1974 at Sugem TPL end	
400kV SUGEN-PIRANA	18/Nov/23	21:45	19/Nov/23	08:22	00:00	00:00	00:00	10:37	Line taken out for voltage control	
400kV SUGEN-PIRANA	19/Nov/23	22:52	20/Nov/23	08:37	00:00	00:00	00:00	09:45	Line taken out for voltage control	
400kV UNOSUGEN-PIRANA	22/Nov/23	09:03	22/Nov/23	18:20	00:00	09:17	00:00	00:00	EHV Bkr + M & R + CT + CVT Tan delta testing work+ Emulsifier Testing work at TPL Pirana	
400kV UNOSUGEN-PIRANA	23/Nov/23	11:59	23/Nov/23	18:55	00:00	06:56	00:00	00:00	EHV Bkr + M & R + CT + CVT Tan delta testing work+ Emulsifier Testing work at TPL Pirana	
400kV PIRANA-PIRANA(PG) I	24/Nov/23	09:31	24/Nov/23	15:01	00:00	05:30	00:00	00:00	EHV Bkr + M & R + CT + CVT Tan delta testing work+ Line isolator alignment work at TPL Pirana	
400kV SUGEN-PIRANA	26/Nov/23	09:26	26/Nov/23	11:45	00:00	02:19	00:00	00:00	EHV Bkr + M & R + CT + CVT Tan delta testing work+ Emulsifier Testing work at TPL Pirana	
400kV SUGEN-PIRANA	26/Nov/23	19:37	27/Nov/23	09:55	00:00	00:00	00:00	14:18	High Voltage Regulation	
400kV SUGEN-PIRANA	27/Nov/23	09:55	27/Nov/23	17:27	00:00	07:32	00:00	00:00	EHV Bkr + M & R + CT + CVT Tan delta testing work+ Emulsifier Testing work at TPL Pirana	100%
400kV PIRANA-PIRANA(PG) II	30/Nov/23	09:18	30/Nov/23	14:21	00:00	05:03	00:00	00:00	EHV Bkr + M & R + CT + CVT Tan delta testing work+ Line isolator alignment work at TPL Pirana	
Dec-23										
400kV SUGEN-PIRANA	14/Dec/23	08:57	14/Dec/23	17:09	00:00	08:12	00:00	00:00	Bay offline washing and annual isolator PM job at TPL - SUGEN	
400kV UNOSUGEN-PIRANA	25/Dec/23	08:06	25/Dec/23	20:28	00:00	12:22	00:00	00:00	ICT-4 Extention project GIS Piling work at TPL Sugem	
400kV UNOSUGEN-PIRANA	26/Dec/23	08:36	26/Dec/23	19:35	00:00	10:59	00:00	00:00	ICT-4 Extention project GIS Piling work at TPL Sugem	
400kV SUGEN-JHANOR	12/Dec/23	09:42	12/Dec/23	19:31	00:00	09:49	00:00	00:00	For offline Washing and Annual PM Line Isolator taken by TPL Sugem	
400kV SUGEN-VAPI	13/Dec/23	12:51	13/Dec/23	19:31	00:00	06:40	00:00	00:00	For offline Washing and Line Isolators Hot spot attending job taken by TPL Sugem	
Jan-24										99.61%
400kV PIRANA-PIRANA(PG) I	04/Jan/24	09:25	04/Jan/24	17:09	00:00	07:44	00:00	00:00	connectors checking + Breaker retesting work by TPL Pirana	
400kV PIRANA-PIRANA(PG) I	05/Jan/24	09:45	05/Jan/24	16:48	00:00	07:03	00:00	00:00	connectors checking + Breaker retesting work by TPL Pirana	
400kV PIRANA-PIRANA(PG) II	07/Jan/24	09:53	07/Jan/24	17:11	00:00	07:18	00:00	00:00	connectors checking + Breaker retesting work by TPL Pirana	
400kV PIRANA-PIRANA(PG) II	08/Jan/24	09:31	08/Jan/24	16:37	00:00	07:06	00:00	00:00	connectors checking + Breaker retesting work by TPL Pirana	
400kV UNOSUGEN-PIRANA	10/Jan/24	09:20	10/Jan/24	18:09	00:00	08:49	00:00	00:00	ICT-4 GIS bus duct open foundation back filling and excavation work by TPL Sugem	
400kV SUGEN-PIRANA	14/Jan/24	12:15	14/Jan/24	13:06	00:00	00:00	00:00	00:51	Tripping: Cause kite thread between Tower no 344 & 345	
400kV SUGEN-PIRANA	14/Jan/24	13:06	14/Jan/24	14:07	00:00	00:00	00:00	01:01	Over Voltage Tripping durring charging 440kV Voltage at Sugem End	
400kV UNOSUGEN-PIRANA	14/Jan/24	12:55	14/Jan/24	14:48	00:00	00:00	00:00	01:53	Tripping: Cause kite thread between Tower no 611 & 612	
400kV UNOSUGEN-PIRANA	17/Jan/24	04:05	17/Jan/24	09:24	00:00	00:00	00:00	05:19	Tripping: Cause kite thread between Tower no 342 & 343	

Element Name	Outage		Restoration		Duration of Outage Attributable to				Reason of Outage	Availability (%)
	Date	Time	Date	Time	Inter-State Transmission Licensee	Others	System Constraint/Natural Calamity/ Militancy	Deemed Available		
					Hrs:Min	Hrs:Min	Hrs:Min	Hrs:Min		
400kV SUGEN-PIRANA	20/Jan/24	11:01	20/Jan/24	13:41	00:00	02:40	00:00	00:00	Current difference observed -CT Primary Injection testing work by TPL	
400kV UNOSUGEN-PIRANA	30/Jan/24	03:16	30/Jan/24	09:44	00:00	00:00	00:00	06:28	Tripping: Cause kite thread between Tower no 342 & 343	

Element Name	Outage		Restoration		Duration of Outage Attributable to				Reason of Outage	Availability (%)
	Date	Time	Date	Time	Inter-State Transmission Licensee	Others	System Constraint/Natural Calamity/ Militancy	Deemed Available		
					Hrs:Min	Hrs:Min	Hrs:Min	Hrs:Min		
Feb-24										
400kV SUGEN-PIRANA	02/02/2024	02:45	02/02/2024	02:45	00:00	00:00	00:00	00:00	Auto Reclose Operated Successfully	100%
400kV SUGEN-VAPI	02/02/2024	11:30	02/02/2024	18:53	00:00	07:23	00:00	00:00	407 89-C&T ISOLATOR PM JOB. At PGCIL end	
400kV SUGEN-PIRANA	04/02/2024	22:01	05/02/2024	00:37	00:00	02:36	00:00	00:00	Hotspot attending work at TPL Pirana end	
400kV SUGEN - UNOSUGEN	22/02/2024	01:28	22/02/2024	01:28	00:00	00:00	00:00	00:00	Auto Reclose Operated Successfully	
Mar-24										
400kV SUGEN-JHANOR	01/Mar/24	04:38	01/Mar/24	04:38	00:00	00:00	00:00	00:00	Auto reclosure at PGCIL Jurisdiction	100%
400kV UNOSUGEN-PIRANA	14/Mar/24	10:46	14/Mar/24	17:31	00:00	06:45	00:00	00:00	ICT- 4 GIS Structure installation work at SUGEN end	
400kV SUGEN-JHANOR	18/Mar/24	06:24	18/Mar/24	06:24	00:00	00:00	00:00	00:00	Auto reclosure at PGCIL Jurisdiction	
400kV UNOSUGEN-PIRANA	24/Mar/24	10:20	24/Mar/24	23:57	00:00	13:37	00:00	00:00	ICT 4 GIS Adaptor installation work at SUGEN end	
400kV SUGEN - UNOSUGEN	24/Mar/24	10:50	24/Mar/24	23:51	00:00	13:01	00:00	00:00	ICT 4 GIS Adaptor installation work at SUGEN end	
400kV PIRANA-PIRANA(PG) I	27/Mar/24	22:44	28/Mar/24	02:36	00:00	03:52	00:00	00:00	Hotspot Attending work(R-phase 89-T isolator Bus pipe connector towards line)	

SCHEDULE-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

SCHEDULE-III- Details of compesation paid by the inter-state Transmission Licensee

SCHEDULE 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 prescribed	Actual % Availability	Restoration time prescribed (in days)	Actual restoration time (in days)	
			NIL		
Total					

SCHEDULE-V Data to be compiled by the Inter-State Transmission Licensees

Sl. No.	Types of Failure	Restoration Time (Days)		
A. Elements of the Transmission Line for Single Circuit (S/C), Double Circuit (D/C) and Multi-Circuit (M/C) towers for each kV class separately				
	Particulars	Terrain Type		
		Plain	River Bed	Hilly
1	Insulator failure			
	(i) Insulator failure in Single Phase _ 400kV	NIL	NA	NA
	(ii) Insulator failure in two Phases	NIL	NA	NA
	(iii) Insulator failure in three Phases	NIL	NA	NA
2	Tower after collapse by Emergency Restoration System (ERS) for S/C, D/C and M/C separately	NIL	NA	NA
3	Tower after collapse without Emergency Restoration System (ERS) for S/C, D/C and M/C separately	NIL	NA	NA
4	Tower damage (not collapse)			
	One arm damage	NIL	NA	NA
	Two arms damage	NIL	NA	NA
5	Snapping of phase condcutor			
	Conductor snapping in Single phase	NIL	NA	NA
	Conductor snapping in two phase	NIL	NA	NA
	Conductor Snapping in three phases	NIL	NA	NA
6	Failure of earth wire	NIL	NA	NA
7	Insulator failure with conductor snapping	NIL	NA	NA
8	Any other combination of failures	NIL	NA	NA
B. Elements of the sub-station for each kV class separately				
1	Failure of Inter Connecting Transformers (ICTs)			
	Restoration of the failed ICT			
	Other major failures in ICTs	Single Phase unit	Three Phase unit	
	(i) Replacement of faulty bushings	NA	NA	NA
	(ii) Replacemen of failed /blasted bushings	NA	NA	NA
	(iii) Replacement of faulty tap chargers	NA	NA	NA
	Failure of Reactors			
2	Restoration of the failed reactor	NA	NA	NA