

**DIRECTIVES ISSUED TO PSTCL IN TARIFF ORDER FOR FY 2019-20 AND ITS COMPLIANCE  
(ENDING DECEMBER-2019)**

Sr. No.	Issues	PSERC Comments & Directive	PSTCL's Reply																						
4.1	Boundary metering, Energy Audit and Reduction in Transmission Losses	<p>The reply of PSTCL is incomplete. PSTCL has neither supplied the roadmap to reduce transmission losses below 2.5% nor the analysis of voltage wise transmission losses with proper installation of ABT meters on all boundary points of different voltage levels. The Commission further observes that there is a huge variation in losses during same months of the FY 2017-18 and FY 2018-19 and also over the full year month wise even during the months which have comparable energy inputs. This indicates that there is still no stabilization of data. The Commission also noticed from the letters of PSTCL that Transmission Losses are being computed based on manual readings of energy meters installed at boundary interface points. The possibility of inadvertent error in assessment of transmission losses read manually cannot be ruled out. For determination of the trajectory of transmission losses, the stabilised data of one complete year is required as this will become the basis of projections for the succeeding years. The Commission reiterates its directive to PSTCL to</p>	<p>The PSTCL Transmission losses are calculated on the basis of input data of ABT/CEM meters downloaded through CMRI. PSTCL has developed online portal for uploading of CMRI data and the monthly Transmission losses are being calculated by software to minimize any error in data.</p> <p>The monthly Transmission losses for FY-2019-2020 upto December, 2019 are as detailed below:</p> <table border="1" data-bbox="414 1209 893 1859"> <thead> <tr> <th>Month</th> <th>PSTCL Transmission losses(%age)</th> </tr> </thead> <tbody> <tr><td>April,2019</td><td>2.56</td></tr> <tr><td>May,2019</td><td>1.67</td></tr> <tr><td>June, 2019</td><td>2.88</td></tr> <tr><td>July, 2019</td><td>2.31</td></tr> <tr><td>August, 2019</td><td>2.10</td></tr> <tr><td>September, 2019</td><td>1.70</td></tr> <tr><td>October, 2019</td><td>2.13</td></tr> <tr><td>November, 2019</td><td>2.35</td></tr> <tr><td>December, 2019</td><td>2.38</td></tr> <tr><td><b>Total Losses (April, 2019-Dec, 2019)</b></td><td><b>2.22</b></td></tr> </tbody> </table> <p>It may be noted that system losses depend upon the system loading, are minimum in the month of May &amp; September.</p>	Month	PSTCL Transmission losses(%age)	April,2019	2.56	May,2019	1.67	June, 2019	2.88	July, 2019	2.31	August, 2019	2.10	September, 2019	1.70	October, 2019	2.13	November, 2019	2.35	December, 2019	2.38	<b>Total Losses (April, 2019-Dec, 2019)</b>	<b>2.22</b>
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4.2	b) Unmanned Sub-stations:	<p>PSTCL has not provided any timelines for implementation of remote control of the substations from Remote Control Centre (RCC). The Commission directs PSTCL to complete the implementation of Remote Control of all the five Sub-stations from Remote Control Centre and share the progress within two months of the issue of this Tariff Order.</p>	<p>Remote control implementation of all the 5 nos. of substation have been established.</p>



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4.3	Loading Status of PSTCL Transmission lines and Substations:	The Commission notes that both 220KV Ckt 1& 2 from 220KV Gobindgarh-1 to Rajpura and 220KV line from RTP to Ghulal remained overloaded even at ambient temp of 15° C to 17°C. The generation at GGSSTP depends upon merit order dispatch and cannot be regulated according to loading conditions of the lines. PSTCL is directed to take remedial measures to de-load the above mentioned circuits under intimation to the Commission.	Loading Status of PSTCL Transmission Lines and Sub stations is enclosed as Annexure-1.
4.4	Maintenance of category wise details of fixed assets:	The Commission notes the compliance. PSTCL is directed to supply the voltage wise updated information on line, every year.	Para already stands settled.
4.5	Reactive Compensation.	PSTCL is directed to share the new reactive compensation study being conducted by CPRl for PSPCL/PSTCL at 220/132 KV level as well as 11/33/66 KV level for the year 2019-20 as per the decision taken in 37 <sup>th</sup> Technical Coordination Committee (TCC) meeting/40 <sup>th</sup> NRPC meeting. PSTCL may also keep the Commission informed regarding PSDF funding and approval of	NRPC during the 43 <sup>rd</sup> NRPC meeting held on 29 <sup>th</sup> Oct 2018 recommended to submit the latest input data for the fresh reactive compensation study being carried out by M/s CPRI at 220/132 KV level as well as 11/33/66 KV level for the year 2019-20.  The requisite input data for carrying out the study by M/s CPRI has been submitted by the O/o SLDC PSTCL in the month of March 2019. The study report is yet to be received

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4.8	Preventive maintenance of transmission lines.	During public hearings, number of complaints regarding failure of supply were received by the Commission from the large industrial consumers fed from 132/220 KV lines. In a surplus power scenario, failure to provide uninterrupted power supply to large industrial units not only results in loss of industrial production but loss of revenue to the distribution licensee also. PSTCL is directed to start a special drive for upkeep of all transmission lines and particularly those lines supplying power to industrial units in the State. PSTCL is further directed to supply quarterly information regarding detail of trippings/breakdowns on each 132/220/400 KV line along with duration of interruption and reason for the same.	Details of Tripping, Breakdown of Transmission lines affecting the power supply alongwith the reasons for the ending December-2019 is attached as Annexure-2.
4.9	Strengthening of State Load Despatch Centre(SLDC)	The State Load Despatch Centers (SLDCs) have been established under Section 31 of the Electricity Act, 2003 to perform functions as directed in Section 32 of the Act. The SLDC has a pivotal role to ensure integrated, secure, reliable and efficient operation of the Power	HR organization of PSTCL is in the process of preparing agenda for the Review of Manpower Structure of SLDC in association with the office of CE/SLDC. The agenda will be placed before BODs of PSTCL for approval.

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		<p>System in the State. With the large scale of integration of RE power, automation and real time operation of the grid system in the near future, SLDC is required to be manned by well trained staff with long term commitment and motivation to work in this field. PSTCL is directed to ensure achievement of the above referred goals by effectively ring fencing the SLDC and ensuring adequate well trained manpower. Regular training with inbuilt system of incentives/rewards to the personnel manning SLDC should be ensured. PSTCL shall submit a complete plan to ensure compliance of the directive within four months from the date of issue of this Tariff Order.</p>	

Loading Status  
Quarter ending June, 2019.

Annexure-I

Sr. No.	P&M Circle	Name of Transmission-lines	% loading as compared with the standard design Parameters of Conductor i.e. 45°C ambient temp. and 75°C conductor temp.	Remarks	Remedial Action
A)	Loading status of PSTCL Transmission lines				
1	Bathinda	132KV Baluana-Bathinda	395A at 35°C ambient temperature (103.95%)	Temporary overloading because 132KV Malout-Mukatsar was out on permit	No remedial action required
2	Jalandhar	PGCIL Kartarpur-Kartarpur	664A at 38°C ambient temperature (118.57%)	Temporary higher side loading since system was on single bus-bar. There was reverse power fed to 400kv Nakodar (instead of feeding being source)	i) Higher side loading shall be controlled after LILO of 2 <sup>nd</sup> ckt. PGCIL Jalandhar - 220KV s/s Kartarpur, the work of which is under execution. However, till the execution of this work, bus-splitting has been done to control higher side loading. ii) For further load growth, augmentation of existing conductor of both circuits i.e. 220 kv DC line from 400 kv Jalandhar to 220 kv Kartarpur with HTLS conductor has already been planned to give relief to line loading
		132KV Manilpur-Banga	397A at 42°C ambient temperature (104.19%)	Higher side loading is within permissible limits corresponding to ambient temperature	No remedial action required
		220 KV G1-Rajpura Ckt. 1	560A at 40°C ambient temperature (100%)	Temporary higher side loading due to lesser generation available at GGSSTP i.e. only 2 units were ON	No remedial action required
3	Ludhiana	220 KV PGCIL-Lalton Ckt. 2	560 A at 30°C ambient temperature (100%)		Replacement of conductor with HTLS conductor has already been planned to give relief to line loading.
		220 KV PGCIL-Lalton Ckt. 3	692 A at 31°C ambient temperature (109.7%)	Temporary higher side loading due to permit at Jagraon end	No remedial action required

		220 KV Lalton - Humbran	660A at 30°C ambient temperature (117.85%)	Higher side loading is within permissible limits corresponding to ambient temperature	No remedial action required
		220 KV Doraha - PGCIL	619A at 32°C ambient temperature (110.5%)	Higher side loading due to high load intake by Sahnewal ckt. I and Sahnewal ckt. II was off from other end	No remedial action required
4	Amritsar	132 KV Sarna - Gurdaspur	352A at 42°C ambient temperature (110%)	Temporary overloading is due to increased demand of the area	New grid 220KV Gurdaspur has been identified for 2020-23 for controlling the overloading of this section
		132 KV Verpal - Mall Mandi	420A at 41°C ambient temperature (110.52%)	Higher side loading corresponding to ambient temperature is within permissible limits	Augmentation of 0.2 sq inch conductor with HTLS conductor has already been planned to give relief to line loading.
5	Patiala	220KV Sunam - Bhalwan-Ckt.1	579A at 31°C ambient temperature (103%)	Slight higher side loading seems to be of temporary nature due to high load intake at 220K Mansa/Jhunir end However, Higher side loading is within permissible limits corresponding to ambient temperature	No remedial action required
		220KV Sunam - Bhalwan-Ckt.2	579A at 31°C ambient temperature (103%)		

B) Loading status of PSTCL Substations of All the 220KV as well as 132KV Substations of PSTCL remain loaded below 100%

**Note**

- 1) The standard current rating of Panther conductor at 45°C ambient temperature & 75°C conductor temperature is 381 A
- 2) The standard current rating of Zebra conductor at 45°C ambient temperature & 75°C conductor temperature is 560 A
- 3) The standard current rating of Moose conductor at 45°C ambient temperature & 75°C conductor temperature is 631 A

"Loading Status"

(Quarter ending Sept - 2019)

220KV Gobindgarh-1 to Rajpura (Ckt. 1 & 2)

To deload the above mentioned circuit, PSTCL has already taken the following remedial measures:-

- i) Replacement of existing conductor with HTLS conductor has been planned.
- ii) PSDF funding is admissible for replacement of Conductor with HTLS conductor. The concerned office is being approached for the approval of PSDF funding. As soon as the approval is received the work shall be started.
- iii) Besides above, additional 220KV link (DC on DC tower) between 400kv Rajpura-220kv Bassi Pathana has been planned in Capital Investment Plan for FY 2020-23.

220 kV RTP Ghulal line:

This overloading was a temporary incident. No overloading observed in subsequent quarters. No remedial action required as yet.



"Loading Status"  
(Quarter ending Dec, 2019)

Sr. no	P&M Circle	Name of Transmission Lines	% loading as compared with the standard design Parameters of Conductor i.e. 45°C ambient temp. and 75°C conductor temp.	Remarks	Remedial Action
1	Ludhiana	220 KV Doraha - PGCIL	600A at 45°C ambient temperature (107%)	As per telephonic information, Higher side loading due to high load intake by Sahnewal caused due to tripping at GGSSTP end	No remedial action required
2	Jalandhar			NIL	
3	Patiala			NIL	
4	Amritsar			NIL	
5	Bathinda			NIL	
6	Loading status of PSTCL Substations	All the 220KV as well as 132KV Substations of PSTCL remained loaded below 100%			
Note :	1) The standard current rating of Panther conductor at 45°C ambient temperature & 75°C conductor temperature is 381 A. 2) The standard current rating of Zebra conductor at 45°C ambient temperature & 75°C conductor temperature is 560 A. 3) The standard current rating of Moose conductor at 45°C ambient temperature & 75°C conductor temperature is 631 A.				

Sr. No	Name of Transmission Line/Transformer	Detail of Tripping/Breakdowns of Transmission lines affecting the supply (from 01/04/2019 to 31/12/2019)				Duration	1st End	Relay Indication	2nd End	Cause of Tripping/breakdown	Whether Supply effected
		Date	From	To	Date						
1	220 kv Lalton -Ferozepur Road (Ludhiana)	04-04-2019	10:31	4:4:19	13:02	2:31	Main -1,A-Phase Zone-1 Main-2,R-Phase Zone-1,12.25 Km	DPR Main-1 & 2 Zone-1 R-Phase Auto reclose operated,13.51km.	Transient Fault	Supply 00:27 Min. Effected (FZR, Road S/S)	
2	132KV Batala-Kathunangal	06-04-2019	20:38	6:4:19	20:55	0:17	L-2-Master Trip		Due to Heavy wind storm	Supply Effected.	
3	132KV Verka-Kathunangal	06-04-2019	20:38	6:4:19	20:47	0:09	Dir. O/C, E/F, 67N Master Trip 86		Due to Heavy wind storm.	Supply Effected	
4	220 KV Malerkotla- Dhuri Ckt-1	07-04-2019	18:30	07:04:19	19:30	01:00	DPR Main-1 Z-2, Y-phase, YN, Iy=4687A, 28.34KM DPR Main-2 Z-2, Y-phase, YN, Iy=4845A, 28.24KM	DPR Main-1 REL 100 TROCC ZM3R, Iy=888.1A, Isf=4.926KA, IIf=936.1A, IInf=3.091KA, DPR Main-2	Due to damage of Coupling Capacitor of 220 KV Dhuri-Bhalwan Ckt-2	Yes for 51 Minutes	
5	220 KV Malerkotla- Dhuri Ckt-2	07-04-2019	18:30	07:04:19	19:38	01:08	DPR Main-1 Z-2, Y-phase, YN, Iy=4695A, 27.35KM DPR Main-2 Z-2, Y-phase, YN, Iy=4.7KA, 27.25KM	Manually switch-off the breaker.	Due to damage of Coupling Capacitor of 220 KV Dhuri-Bhalwan Ckt-2	Yes for 51 Minutes	
6	220 KV S/S Dhuri Ckt. 1	07-04-2019	18:31	07:04:19	19:25	00:54	B C Phase Distance 24.4 km B Phase 5.84 KA, C Phase 5.74 KA	Not Tripped	Y phase coupling capacitor/damaged at Dhuri end 220 KV Duri - Bhalwan CKT. 2	Affected For 54 min	
7	220KV S/S Dhuri Ckt. 2	07-04-2019	18:31	07:04:19	00:16	05:45	B C Phase Distance 19.6 km B Phase 8.49 KA, C Phase 8.50 KA	OP/C Y Phase zone 1	Y phase coupling capacitor/damaged at Dhuri end 220 KV Duri - Bhalwan CKT. 2	Affected For 54 min	
8	132 KV Koiakarore -Firozshah Line	07-04-2019	13:37	07-04-2019	14:12	0:34	Earth Fault		Due to jumper damaged at Tower No. 96/1	132 KV S/S Ferozeshah & 132 KV S/S Mana Singh Wala for 01 hr 12 mins from 13:38 - 14:50 and 220 KV S/S Ferozepur for 01 hr from 13:38-14:38.	
9	132 KV Koiakarore -Firozshah Line	07-04-2019	14:28	07-04-2019	14:35	00:07	Earth Fault		Due to jumper damaged at Tower No. 96/1	132 KV S/S Ferozeshah & 132 KV S/S Mana Singh Wala for 01 hr 12 mins from 13:38 - 14:50 and 220 KV S/S Ferozepur for 01 hr from 13:38-14:38	

10	132 KV Kotkarore-Firozshah Line	07-04-2019	14:18	07-04-2019	14:25	00:07	Earth Fault		Due to jumper damaged at Tower No. 96/1	132 KV S/S Ferozeshah & 132 KV S/S Mana Singh Wala for 01 hr 12 mins from 13:38 - 14:50 and 220 KV S/S Ferozeshah for 01 hr from 13:38-14:38
11	132 KV Kotkarore -Firozshah Line	07-04-2019	14:48	08-04-2019	13:38	22:50	Earth Fault, Blue Phase		Due to jumper damaged at Tower No. 96/1	132 KV S/S Ferozeshah & 132 KV S/S Mana Singh Wala for 01 hr 12 mins from 13:38 - 14:50 and 220 KV S/S Ferozeshah for 01 hr from 13:38-14:38
12	132 KV Moga-Badhni Kalan	08-04-2019	18:19	08-04-2019	18:28	00:09	O/C - B Phase, E/F		Transient Fault	Supply Effected
13	132 KV Moga- Moga-1	08-04-2019	18:19	08-04-2019	18:26	00:07	O/C - B Phase, E/F		Due to 132 KV Jamalpur Ckt at 132 KV S/S Moga-1	Supply Effected
14	132KV CIVIL Line-Power Colony	10-04-2019	21:3	10:4:19	21:45	0:15	86		Transient Fault	Supply Effected
15	132KV BBMB JAL -Focal point	10-04-2019	9:25	10:04:2019	9:40	0:15	Breaker Not tripped	Dpr, O/C Eearth fault	Transient Fault	effected(0:15)
16	132 KV Firozpur - Fandkot Line	11-04-2019	14:28	11-04-2019	14:38	0:10	Earth Fault, DPR YN Phase Zone -1, 15.6 km		Due to tree touching at tower No. 59, 60	132 KV S/S, Fandkot for 10 mins
17	132KV GORVA- PHAGWARA Ckt NO.1	15-04-2019	6:56	15:04:19	7:15	0:19	O/C RED PHASE ZONE 2ND		LINE PATTTROLED BUT Transient Fault	Supply effected =00:19 HRS
18	132KV GORVA- PHAGWARA Ckt NO.2	15-04-2019	6:56	15:04:19	7:16	0:20	BREAKER NOT TRIPPED		LINE PATTTROLED BUT Transient Fault	Supply effected =00:19 HRS
19	132 KV HAMIRPUR-CHOHAL	15-04-2019	14:35	15:04:19	14:45	0:10	220 KV MATTAN SIDH POWER HOUSE TRIPPED		BREAKER NOT TRIPPED	Supply effected =00:10 HRS
20	132KV GORVA- PHAGWARA Ckt NO.1	15-04-2019	21:50	15:04:19	22:30	0:40	O/C YELLOW PHASE ZONE HSU		BREAKER NOT TRIPPED	Supply effected =00:28HRS
21	132KV GORVA- PHAGWARA Ckt NO.2	15-04-2019	21:50	16:04:19	0:19	2:29	O/C YELLOW PHASE ZONE HSU		BREAKER NOT TRIPPED	Supply effected =00:28HRS
22	132 kv Badhni - Singawala	15-04-2019	21:03	15:4:19	22:44	1:41	E/F O/C R- Phase		Supply Restored after the instructions of PC Patiala	Supply effected
23	132 kv Badhni - Singawala	15-04-2019	22:49	16:4:19	16:25	17:36	E/F O/C R- Phase		Tree Fallan on the Line Near Gallia Village	Supply effected
24	132 Kv Kotkarore- Ferozshah	15-04-2019	17:25	15:4:19	17:48	0:23	R Phase Highset		Due to damage of 132 KV LA at 132 KV S/S Ferozshah	Supply effected
25	220 kv Mastewal - Botianwala Ckt-2	15-04-2019	20:41	15:4:19	22:22	1:41	Not Trip	O/C Backup protection E/F	Supply Restored after the instructions of PC Patiala	Supply 00:12 Min. effected

26	132 KV Kolkaror -Ferozeshah Line	15-04-2019	17:25	15-04-2019	17:48	0.23	Red Phase Highset		Due to damage of 132 KV LA at 132 KV S/S Ferozeshah	132 KV S/S. Ferozeshah for 23 mins.
27	132 KV Kolkarore - FirozshahLine	15-04-2019	17:25	16-04-2019	17:48	0.23	Earth Fault		Due to damage of 132 KV LA at 132 KV S/S, 132/66KV, 16/20 MVA T1 (R phase)	Ferozeshah for 23 mins.
28	132 KV Firozpur - Faridkot Line	15-04-2019	20:10	16-04-2019	09:10	13.0	DPR BN Phase Zone -II, 25.2 km		Tree cutting at tower No. 27, 28	133 KV S/S, Faridkot for 13 hrs.
29	132 KV Kolkaror - Ferozeshah Line	15-04-2019	20:40	15-04-2019	21:30	0.50	Manually SD due to storm		Manually SD due to storm	132 KV S/S, Ferozeshah for 50 mins.
30	132 KV Kolkarore - FirozshahLine	15-04-2019	20:40	15-04-2019	21:30	0.55	Earth Fault		Due to Storm	132 KV S/S, Ferozeshah for 50 mins.
31	220 kv katorewala- badal (A-1)	15-04-2019	23:20	15-04-2019	00:23	01.03	Main-1,ABN,Z-1 L=2.912km & Main -2, ABN,Z-1 L= 3.703km opid		due to heavy rainfall	supply affected For 1.03
32	220 kv katorewala-Muktisar(A-2)	15-04-2019	23:46	16-04-2019	19:04	19.18	Main-1 CN, L= 3.088 km & Main -2 CN, L= 3.131km opid		due to disc puncter Tower no 64, Ph-Y	supply affected For 1.03 as Badal line also tripped
33	132 KV ferozshah- Kolkorore	16-04-2019	1:35	16.4.19	1:41	0.6	E/F		Due to Storm	Supply Effected
34	220 kv Mastewal - Boliianwala CKT-2	16-04-2019	2	16.4.19	18:55	16.55	Not Trip	O/C Backup protection E/F	Transient Fault	Supply 00.10 Min. effected
35	132 KV Kolkarore -Firozshah Line	16-04-2019	01:35	16-04-2019	01:41	00.06	Earth Fault		Due to Storm	132 KV S/S, Ferozeshah for 06 mins.
36	132 KV Malour-Abohar	16-04-2019	21:54	16-04-2019	22:07	0.13	E/F		Transient Fault	Supply Affected For this Time
37	220 kv katorewala-Muktisar(A-5)	16-04-2019	22:16	17-04-2019	07:47	9.31	Main-1, CN, Z-2 L=21.09km & Main-2CN, Z-2 L=20.07km opid		due to heavy rainfall	supply affected For 1.03 as Badal line and A-1also tripped
38	132 KV CIVIL Line-Power Colony	17-04-2019	0:55	17.4.19	1:05	0.1	O/C Red Phase Highset Dir. Operated		Transient Fault	Supply effected.
39	132KV Verpal-Mall Mandi	17-04-2019	1:52	17.4.19	3:26	1.34	O/C, Blue phase Highset 86		Due to Heavy windstorm & Rain.	Supply effected.
40	132 KVMoga- Sosan	17-04-2019	00:58	17-04-2019	01:03	00.05	O/C - R Phase, E/F		Transient Fault	Supply effected For this time
41	220 KV Talwandi Sabo - Railway Line	17-04-2019	11:32	17-04-2019	11:49	0.17	Directional E/F		After taking permission from PC Patiala try was taken, Line holded successfully.	Supply Affected For this Time
42	132 KV Moga-Panigrain Kalan	18-04-2019	01:13	18-04-2019	20:02	19.11	O/C - Y Phase, E/F, Z-1, 24.1 Km		Disc Puncture on 317 No. Tower of Line	effected for 20 min.
43	132 KV Moga- Sosan	18-04-2019	10:14	18-04-2019	10:22	00.08	O/C - R Phase, E/F		Transient Fault	Supply effected For this time
44	132 kv Badmi -Moga	21-04-2019	5.5	22.4.19	18:05	36.15		Trip	Transient Fault	Supply 01.05 Min. Effected
45	132 kv Badmi -Moga	23-04-2019	11:56	7.5.19	15:34	339.38	E/F, O/C, B-Phase		Transient Fault	Supply 00.55 Min. Effected

46	132Kv Focal point-Kartarpur	24-04-2019	16:35	24-04-2019	16:56	0:21	Dpr. L1 pickup E/fault	Intermediate breaker B3 was tripped	found nothing	affected/00:05hr (rs)
47	132KV MPH2-TANDA	24-04-2019	0:58	24-04-19	3:15	3:17	86X ZONE 2ND	E/F	DUE TO HEAVY STORM	Supply effected =01:58
48	132KV TANDA-BHOGPUR	24-04-2019	0:58	24-04-19	2:56	2:58	BREAKER NOT TRIPPED	YELLOW PHASE ZONE 1ST	DUE TO HEAVY STORM	Supply effected =01:58 HRS
49	220 kv Sahnewal -Ghulal	24-04-2019	16:5	24-4-19	20:22	3:32	Main-1-B-Phase ,Zone-1L-1,2,3, 10.41 km	-	Transient Fault	Supply 00:24 Min. Effected
50	220 kv Sahnewal -PGCIL	24-04-2019	17:31	25-4-19	7:13	13:42	Main-1-RYB-Phase,Zone-1, 10.46km	-	OPGEW wire in range Between Tower No. 278 To 279	Supply 00:24 Min. Effected
51	132 Kv Balluana-Bathinda	24-04-2019	21:03	24-04-2019	21:16	0:13	Directional E/F, Master Trip	-	Transient Fault	Supply Affected For this Time
52	132 kv Ghulal - Doraha	27-04-2019	5:58	27-4-19	7:48	1:5	Directional E/F	-	Y-Phase PT damage of Bus Bar at 220 kv S/Sin, Doraha	Supply effected
53	132 kv Ghulal -Samaspur - She	27-04-2019	5:58	27-4-19	6:37	0:39	-	-	Y-Phase PT damage of Bus Bar at 220 kv S/Sin, Doraha	Supply effected
54	132 kv Ghulal -Jamaipur ckt-1	27-04-2019	5:58	27-4-19	6:17	0:19	Directional E/F	-	Y-Phase PT damage of Bus Bar at 220 kv S/Sin, Doraha	Supply effected
55	132 kv Ghulal -Jamaipur ckt-2	27-04-2019	5:58	27-4-19	6:18	0:2	-	-	Y-Phase PT damage of Bus Bar at 220 kv S/Sin, Doraha	Supply effected
56	132 kv Doraha- Bilaspur- Sihora	27-04-2019	5:58	27-4-19	7:48	1:5	O/C, RYB-Phase	-	Y-Phase PT damage of Bus Bar at 220 kv S/Sin, Doraha	Supply effected
57	220 KV Talwandi Sabo -Railway	27-04-2019	04:14	27-04-2019	04:24	0:10	E/F	-	After taking permission from PC Patalia, try was taken, Line holded successfully.	Supply Affected For this Time
58	132 KV Firozpur - Fardkot Line	27-04-2019	06:10	27-04-2019	11:05	4:55	Earth Fault, DPR BN Phase Zone -I, 1.6 km	-	Due to nest of birds at tower no. 13	132 KV S/S, Fardkot for 04 hr 55 mins.
59	220 kv G-1 - G-3	29-04-2019	17:01	29-4-19	17:2	0:19	Not Trip	HSU,O/C,67Y, 67N	Y-Phase C, T Damage at G-1 S/Sin	Supply Effected
60	220 kv G-3 - G-2	29-04-2019	17:01	29-4-19	17:2	0:19	HSU,O/C,67Y, 67N	Not Trip	Y-Phase C, T Damage at G-1 S/Sin	Supply Effected
61	132 KV Gholian-Smadh Bhai	29-04-2019	09:44	29-04-2019	09:49	00:05	E/F	-	Transient Fault	Supply effected For this time
62	132 kv Ghulal -Samaspur -She	01-05-2019	6:27	1-5-19	7:16	0:49	Directional E/F, Master Trip	-	Supply Restored after the instructions of PC Patalia	Supply Effected
63	220 kv Sahnewal - PGCIL	01-05-2019	6:27	1-5-19	11:07	4:4	DPR,MMCOM,SOTF,DPR-R,BTSG	-	OPGEW wire in range Between Tower No. 278 To 279	Supply 00:53 Min. Effected
64	132 Kv Gidderbaha-Malout	01-05-2019	23:35	01-05-2019	23:50	00:15	DPR46,7KMEN,23,28%	-	-	effected
65	132 Kv Malout-Abnhar	01-05-2019	23:35	01-05-2019	23:50	00:15	Y PHASE E/F	-	-	Effected
66	220 KV Talwandi Sabo-Railway	03-05-2019	19:27	03-05-2019	20:08	00:41	E/F	-	Tripped due to bad weather. After taking permission from PC Patalia, try was taken. Line holded successfully.	affected
67	132 kV Fardkot Line	05-05-2019	01:25	05-05-2019	09:05	07:40	Zone I BN Phase 1.7 km	-	Tree cutting at Tower No. 31, 32, 74 and 75 & Due to nest of birds at Tower No. 13, 25, 39 and 46	132 KV S/S, Fardkot for 07 hr 40mins.
68	132 Kv Balluana-Bathinda	06-05-2019	03:48	06-05-2019	03:58	00:10	E/F	-	-	effected
69	132 Kv PDP L-2	06-05-2019	03:48	06-05-2019	03:58	00:10	O/C, E/F	-	-	effected
70	132 KV Moga- Gholian Kalan	07-05-2019	14:1	7-5-19	14:2	0:1	E/F	-	Due to P u/f, T-1 Trip at 132 KV S/S Gholia Kalan	Supply Effected

71	132 KV Gholian Kalan	07-05-2019	14 10	07-05-2019	14 20	00:10	E/F			Due to P T/F, T-1 Trip at 132 KV S/S Gholia Kalan	Supply Effected
72	132KV NAKKIAN- NAWANSHAHR CKT NO.1	08-05-2019	13 20	08 05 19	13 40	0 20	BREAKER NOT TRIPPED	ZONE 2ND Red Phase	Line Patrolled but Transient Fault	Supply effected =00 12 HRS	
73	132KV NAKKIAN- NAWANSHAHR CKT NO 2	08-05-2019	13 20	08 05 19	13 45	0 25	BREAKER NOT TRIPPED	ZONE 2ND Red Phase	Line Patrolled but Transient Fault.	Supply effected =00 12 HRS	
74	132 KV NAWANSHAHR - GORYA	08-05-2019	13 20	08 05 19	13 32	0 12	BREAKER NOT TRIPPED	NO INDICATION	Due to over loading	Supply effected =00 12 HRS	
75	220 kv Gobindgarh -1-Bassi Pathana	09-05-2019	22 22	11 5 19	17 48	43.36	RYB-Phase, Trip,Zone -1		B-Phase C, T damage at G-1 S/SIn.	Supply 00 39 Min. Effected (Bassi pathana S/SIn.)	
76	132 KV Ferzshah- Kotkarore	10-05-2019	3 05	10 5 19	13 18	10 13	Over current, E/F		Transient Fault	Supply effected 132 KV S/S ferozshah for 17 mins	
77	220 kv Jagraon -PGCIL	10-05-2019	3 57	10 5 19	15 41	11 44	DPR,RYB-Phase ,Zone-1, 4.355 km	22.2 km	R-Phase Discs Flashed at Tower No. 74	Supply 00 56 Min. Effected	
78	220 kv Jagraon - Himmatpura	10-05-2019	3 57	10 5 19	4 53	0 56	on	Zone 2, AN,Phase,47.21 km	Supply Restored after instructions of PC Patiala	Supply 00 56 Min. Effected	
79	220 kv Jagraon -Ajitwal	10-05-2019	3 57	10 5 19	5 28	1 31	on	RYB-Phase,Zone-2	Supply Restored after instructions of PC Patiala	Supply 00 56 Min. Effected	
80	220 kv Lalton -jagraon	10-05-2019	4 01	10 5 19	5 35	1 34	RYB-Phase,Zone-1,35.74km	on	Supply Restored after instructions of PC Patiala	Supply 00 56 Min. Effected	
81	220 KV Bajakhana-GHTP Lehra Mohabbat Ckt-1	10-05-2019	02 37	10-05-2019	03 19	00:42	A-Ph -Z-2	15.86 KM	Tripped due to heavy windstorm/bad weather. After taking permission from PC Patiala, try was taken, Line holded successfully.	affected	
82	220 KV Bajakhana-GHTP Lehra Mohabbat Ckt-2	10-05-2019	02 37	10-05-2019	03 19	00:42	A-Ph -Z-1	10.98 KM	Tripped due to heavy windstorm/bad weather. After taking permission from PC Patiala, try was taken, Line holded successfully.	affected	
83	220 KV Bajakhana-Sandhwan	10-05-2019	02:37	10-05-2019	04:11	01:34	B-Ph -Z-2	7.441 KM	Tripped due to heavy windstorm/bad weather. After taking permission from PC Patiala, try was taken, Line holded successfully.	affected	
84	132 kv Kolkarore Line	10-05-2019	03 01	10-05-2019	13 18	10 17	Earth Fault		Breakdown	132 KV S/S, Ferzeshah for 17 mins.	
85	220 KV Talwandi Sabo-Railway	10-05-2019	17 00	10-05-2019	17 59	00 59	E/F		After taking permission from PC Patiala, try was taken, Line holded successfully.	affected	
86	220 KV Sandhwan-Bajakhana Line	10-05-2019	17 54	11-05-2019	14 43	20 49	DPR Main 2,Z2,RYB Ph,40.40 KM		Earth Wire Broken at tower no. 1 from Bajakhana Sub Station	affected	
87	220 KV Bajakhana-GHTP Lehra Mohabbat Ckt-1	10-05-2019	17 55	10-05-2019	18 45	00 50	BN-Ph -Z-1 8.536 KM		Tripped due to heavy windstorm/bad weather. After taking permission from PC Patiala try was taken, Line holded successfully.	affected	

88	220 KV Bajakhana-Sandhwan	10-05-2019	17:55	11-05-2019	14:37	20:42	BN-Ph. Z-1 KM	8:536		Tripped due to heavy windstorm/bad weather. After taking permission from PC Patil a try was taken. Line holed successfully.	affected
89	132KV Mail-Mandi- GT Road	13-05-2019	15:54	13:5:19	16:25	0:31	O/C, Red Phase			Due to Supply failed at Verpal End	Supply Effected
90	132KV Hakima Gate -Verpal Ckt-1 & Ckt-2	13-05-2019	15:55	13:5:19	17:38	1:43	No indication			Due to Disc insulator string blast & Lighting at Verpal- Udroke line at tower no 55 & Set Right	Supply Effected
91	220KV Verpal-Butari	13-05-2019	15:55	13:5:19	18:5	2:55	64 86B, 86C			Due to Heavy Windstorm	Supply Effected
92	132KV GORYA- PHAGWARA CKT NO.1	13-05-2019	19:28	13:05:19	20:16	0:48	YELLOW PHASE O/C HSU		BREAKER NOT TRIPPED	YELLOW PHASE STRING FLASHED AT TONO 326	Supply effected =00:20 HRS
93	132KV GORYA- PHAGWARA CKT NO.2	13-05-2019	3:32	13:05:19	3:52	0:20	BLUE PHASE O/C HSU ZONE 1ST		BREAKER NOT TRIPPED	YELLOW PHASE STRING FLASHED AT TONO 326	Supply effected =00:20 HRS
94	132KV TANDA-BHOGPUR	13-05-2019	19:40	13:05:19	20:10	0:30	BREAKER NOT TRIPPED		BLUE PHASE ZONE 1ST	Line Patrolled but Transient Fault	Supply effected =00:30 HRS
95	132 kv Swaddi - Jamalpur	13-05-2019	18:2	14:5:19	15:14	20:54	Not Trip		BGF Zone-1, Y -Phase E/F, 29.8 km	Y-Phase Discs Flashd at Tower No. 112	Supply 01:12 Min. Effected 132 KV S/S Fardkot for 01 hr 40mins.
96	132 KV Fardkot Line	13-05-2019	16:35	13-05-2019	18:15	01:40	Zone I RN Phase 25.5 km			Due to Storm and bad weather	132 KV S/S Mana Singh Wala For 35 minutes
97	132 kv Mana Singh wala Line	13-05-2019	17:40	13-05-2019	18:15	00:35	RN Phase Zone I 11.7 km			Due to Storm and bad weather	132 KV S/S Mana Singh Wala For 35 minutes
98	132 kv Mana Singh wala Line	13-05-2019	18:40	13-05-2019	18:50	00:10	BN Phase Zone I 10.4 km			Due to 132 kv Ferozeshah- Mana Singh wala Line ( Fault travelled at 220 KV S/S Ferozepur)	132 KV S/S Mana Singh Wala For 10 minutes
99	132 KV Panjgrain Kalan	14-05-2019	02:02	14-05-2019	02:12	00:10	O/C - Y Phase, E/F, Z-1, 21.4 Km			Not Found	Supply Effected
100	132KV Batala-Pakharpura	16-05-2019	1:45	16:5:19	3:35	1:5	E/F, Red Phase Pickup Master Trip			Transient Fault	Supply Effected
101	132KV Kathunangal-Verka	16-05-2019	1:45	16:5:19	2:1	0:25	O/C Yellow Phase			Transient Fault	Supply Effected
102	132KV Verpal-Mail Mandi Line	16-05-2019	1:08	16:5:19	2:3	1:22	O/C, Highest Blue Phase			Due to Heavy Windstorm.	Supply Effected
103	132KV Verpal-Hakima Gate Ckt- 1	16-05-2019	3:05	16:5:19	3:3	0:25	Y B Phase High Set			Due to 11KV Outdoor cable box damaged at 132KV S/Sin Sakarti Bagh.	Supply Effected
104	132KV Verpal-Hakima Gate Ckt- 2	16-05-2019	3:05	16:5:19	3:3	0:25	Y B Phase High Set			Due to 11KV Outdoor cable box damaged at 132KV S/Sin Sakarti Bagh.	Supply Effected
105	132KV GORYA- PHAGWARA CKT NO.1	16-05-2019	3:32	16:05:19	4:22	0:50	BLUE PHASE HSU ZONE 1ST		BLUE PHASE E/F ZONE 2ND	RED PHASE STRING FLASHED AT TONO 254	Supply effected =00:20 HRS
106	132KV GORYA- PHAGWARA CKT NO.2	16-05-2019	3:32	16:05:19	3:52	0:20	BLUE PHASE O/C HSU ZONE 1ST		BREAKER NOT TRIPPED	RED PHASE STRING FLASHED AT TONO 254	Supply effected =00:20 HRS
107	132KV GORYA- PHAGWARA CKT NO.1	16-05-2019	9:15	16:05:19	15:13	5:58	E/F RED PHASE HSU		RED PHASE ZONE 2ND	RED PHASE STRING FLASHED AT TONO 254	Supply effected =00:18 HRS

108	132KV GORYA- PHAGWARA CKT NO 2	16-05-2019	9 15	16 05 19	9 33	0 18	E/F RED PHASE	BREAKER NOT TRIPPED	RED PHASE STRING FLASHED AT TONO 254	Supply effected =00 18 HRS	
109	132KV MPH2-TANDA	16-05-2019	1 20	16 05 19	6 35	5 15	RED PHASE E/F ZONE 1ST	RED PHASE E/F ZONE 1ST 861	DUE TO BAD WITHEATHER AND STORM	Supply effected =00 14 HRS	
110	132KV TANDA-BHOGPUR	16-05-2019	1 20	16 05 19	1 34	0 14	RED PHASE E/F ZONE 1ST	BREAKER NOT TRIPPED	DUE TO BAD WITHEATHER AND STORM	Supply effected =00 14HRS	
111	132KV Verpal-Mall Mandi	17-05-2019	15 01	17 5 19	15 27	0 26	Blue Phase , O/C Highest		Transient Fault	Supply Effected	
112	132KV Verpal-Hakima Gate Ckt- 1 & 2	17-05-2019	15 01	17 5 19	15 15	0 14	No indication		Transient Fault	Supply Effected	
113	132KV GORYA- PHAGWARA CKT NO 1	17-05-2019	13 28	17 05 19	14 34	1 06	BLUE PHASE HSU E/F ZONE 2ND MASTER	BLUE PHASE E/F ZONE 2ND MASTER TRIP	LINE PATROLED BUT Transient Fault	Supply effected =00 15 HRS	
114	132KV GORYA- PHAGWARA CKT NO 2	17-05-2019	13 28	17 05 19	13 43	0 15	BLUE PHASE O/C HSU	BREAKER NOT TRIPPED	LINE PATROLED BUT Transient Fault	Supply effected =00 15 HRS	
115	132 KV Panigrain Kalan	20-05-2019	04 04	20-05-2019	04 14	00 10	O/C - B Phase, E/F, Z-1, 18.19 Km		Not Found	Supply Effected	
116	132KV Balala-Pakharpura	21-05-2019	15 57	21 5 19	16 1	0 13	DPRL1 Pickup L2 pickup		Transient Fault	Supply Effected	
117	132KV Verka-Mall Mandi	21-05-2019	15 57	22 5 19	2 26	10 29	Dir. O/C, E/F Master Trip 86	E/F	Due to Yellow Phase Jumper burnt & Set right	Supply Effected	
118	132KV GORYA- PHAGWARA CKT NO 1	24-05-2019	4 31	24 05 19	4 50	0 19	YELLOW PHASE HSU E/F	BREAKER NOT TRIPPED	BLUE PHASE STRING FLASHED AT T NO 330	Supply effected =00 20 HRS	
119	132KV GORYA- PHAGWARA CKT NO 2	24-05-2019	4 31	24 05 19	4 51	0 20	YELLOW PHASE O/C HSU E/F	BREAKER NOT TRIPPED	BLUE PHASE STRING FLASHED AT T NO 330	Supply effected =00 20 HRS	
120	220 KV Bajakhana-Sandhwan	24-05-2019	22 13	24-05-2019	22 25	00 12	CN-Ph, Z-1 KM	29 956		Tripped due to heavy windstorm/bad weather After taking permission from PC Patilal. try was taken, Line holded successfully.	Supply affected
121	132 KV Panigrain Kalan	26-05-2019	03 25	26-05-2019	03 40	00 15	O/C - Y Phase, E/F, Z-1, 12.3 Km		Disc Puncture on 317 No. Tower of Line	Supply Effected	
122	132KV NAKKIAN- NAWANSHAHR CKT NO 2	29-05-2019	12 27	29 05 19	12 58	0 31	RED PHASE ZONE 1ST	RED PHASE ZONE 1ST NEUTRAL GROUND	LINE PATROLED BUT Transient Fault	Supply effected =00 29 HRS	
123	132KV NAKKIAN- NAWANSHAHR CKT NO 1	29-05-2019	12 28	29 05 19	12 57	0 29	30GRYB PHASE REVERSE ZONE 2ND	BLUE PHASE ZONE 1ST	LINE PATROLED BUT Transient Fault	Supply effected =00 29 HRS	
124	132 KV Fezshah- Kokharore	29-05-2019	22 32	29 5 19	22 44	0 12	Over current relay		Due to damage of CT of 66 KV khosa dal singh line	Supply Effected	
125	220 KV REHANA JATTAN- HOSHARPUR	01-06-2019	20 05	01 06 19	21 20	1 15	BREAKER NOT TRIPPED	RED PHASE ZONE 1ST	DUE TO bad weather & STORM	SUPPLY EFFECTED 01 15 HRS	
126	220 KV NAKKODER - HOSHARPUR	01-06-2019	20 02	01 06 19	21 20	1 18	L1 E/F ZONE3	BLUE PHASE MASTER TRIP	DUE TO bad weather & STORM	SUPPLY EFFECTED 01 15 HRS	
127	132KV BHOGPUR- HOSHARPUR	01-06-2019	19 55	01 06 19	21 40	1 45	Y&B PHASE O/C ZONE1ST	L1,L3 ZONE 1ST	Due to bad weather and storm	Supply effected =01 01HRS	
128	132 KV MAHILPUR- HOSHARPUR CKT NO 1	01-06-2019	20 08	01 06 19	22 11	2 03	Y&B PHASE O/C ZONE1ST	Y&B PHASE O/C ZONE 1ST	(DUE TO STORM) Patrol the line from tower no 10 to 25, nothing found	Supply effected =01 01HRS	



129	132 KV MAHILPUR- HOSHARPUR CKT NO.2	01-06-2019	20.08	01.06.19	22.08	2.00	B PHASE O/C ZONE 1ST	L3 ZONE 1ST	(DUE TO STORM) Patrol the line from tower no 10 to 25, nothing found	Supply effected =01.01HRS
130	132KV Pathankot-Kangra Ckt 182	02-06-2019	14.57	2.6.19	15.15	0.18	86		Transient Fault	Supply Effected
131	220 kv Lalton - Sahnewal	02-06-2019	8.01	2.6.19	19.15	11.14	DPR Main-182 R-Phase O/C, Zone-1, 5.043 km	DPR R-Phase Zone-1, 12.13km	2 no - Jumper 2no -T-Clamp Burnt at lalton kалан	Supply 00.24 Min. Effected
132	132KV Wadala Granthian- Batalla Ckt-2	03-06-2019	12.33	3.6.19	13.06	0.33	Dir, E/F		Due to Heavy windstorm	Supply Effected
133	220KV Verpal-Udoke	03-06-2019	12.35	3.6.19	13.22	0.47	Yellow Phase O/C, Zone-2 Trip	Zone-1,2 Dir, L1, L2	Due to Heavy windstorm.	Supply Effected
134	220KV Wadala Granthian- Verpal Ckt-2	03-06-2019	12.33	3.6.19	13.27	0.54	Main-1 Any Trip ABC Zone-C		Due to Heavy windstorm	Supply effected
135	220KV Wadala Granthian-Kotli Surat Malli	03-06-2019	12.33	3.6.19	13.04	0.31	Zone-C, Main1 Any Trip Zone-4 Auto Recloser 186A 186B Main-2 Any Trip ABC Zone-4		Due to Heavy windstorm	Supply effected
136	220KV Wadala Granthian- Sama Ckt-1	03-06-2019	12.33	3.6.19	13.04	0.31	Main -1 Any Trip ABC Zone-4 Main-2 Any Trip Zone-4		Due to Heavy windstorm	Supply effected
137	220KV Wadala Granthian- Sama Ckt-2	03-06-2019	12.33	3.6.19	13.04	0.31	Main -1 Any Trip ABC Zone-4 Main-2 Any Trip Zone-4		Due to Heavy windstorm	Supply effected
138	220KV Wadala Granthian- Fatehgarh Churian	03-06-2019	12.33	3.6.19	13.05	0.32	Main -1 Any Trip ABC Zone-4 Main-2 Any Trip Zone-4 Auto Recloser 186A, 186B Main-2		Due to Heavy windstorm	Supply effected
139	220KV Udoke-Wadala Granthian	03-06-2019	12.33	3.6.19	13.03	0.3	Zone-1,2 Dir L1, L2 YB Phase		Due to Heavy windstorm	Supply effected
140	220KV Sama-Wadala Granthian Ckt-4	03-06-2019	12.33	3.6.19	13.03	0.3	Main-1 Milcom YB Phase Zone-2, Main-2 YB Phase Zone-2		Due to Heavy windstorm	Supply effected
141	220KV Tibber-Wadala Granthian	03-06-2019	12.33	3.6.19	12.58	0.25	Milcom, RYB Phase Zone-2 286 R2, 286 Y2		Due to Heavy windstorm	Supply effected
142	220 KV REHANA JATTAN- HOSHARPUR	03-06-2019	22.12	03.06.19	23.05	0.53	BREAKER NOT TRIPPED	e/f	DUE TO STORM	SUPPLY EFFECTED (00.53hrs)
143	220 KV NAKKODER - HOSHARPUR	03-06-2019	22.12	03.06.19	23.10	0.58	L1 ZONE3	RED PHASE E/F ZONE 1ST	DUE TO STORM	SUPPLY EFFECTED (00.53hrs)
144	132KV BHOGPUR- HOSHARPUR	03-06-2019	22.10	04.06.19	11.20	13.10	RYB PHASE RAZOA	L1, L3 ZONE 1ST	DUE TO STORM/TREE FALLEN MID OF T.NO.38-39)	Supply effected =00.53HRS
145	132 KV MAHILPUR- HOSHARPUR CKT NO.1	03-06-2019	22.12	03.06.19	22.40	0.28	BREAKER NOT TRIPPED	B PHASE O/C	DUE TO STORM	Supply effected =00.53HRS
146	132 kv Ghulal - Chamkaur Sahib	03-06-2019	23.05	4.6.19	0.1	1.05	E/F		Due to storm	Supply Effected =00.53HRS
147	132 kv Ghulal - Samaspur- Sehe	03-06-2019	23.15	4.6.19	0.3	1.15	E/F		Due to storm	Supply Effected
148	132 KV IGC- GNDTP Bathinda	04-06-2019	12.28	04-06-2019	12.47	0.19		B-ph, Z-1, 1.2 KM	Tripped only from GNDTP End	Supply Effected
149	132KV Verpal-Tam Taran	05-06-2019	12.35	5.6.19	12.55	0.2	Blue Phase Highset		Transient Fault	Supply Effected
150	132 KV IGC- GNDTP Bathinda	05-06-2019	12.20	05-06-2019	18.15	5.55		B-ph, Z-1, 1.1 KM	Tripped only from GNDTP End	Supply Effected affected for 35 min

151	132KV TANDA-BHOGPUR	06-06-2019	17.50	06.06.19	18.10	0.20	BREAKER NOT TRIPPED	BLUE PHASE ZONE 1ST E/F	LINE PATTRLOL BUT Transient Fault	Supply effected =00.20 HRS
152	132KV MPH2-TANDA	06-06-2019	17.50	06.06.19	18.15	0.25	ZONE 2ND 86X	EARTH FAULT	LINE PATTRLOL BUT Transient Fault	Supply effected =00.20 HRS
153	132KV Verpal-Tarntaran	09-06-2019	23.45	10.6.19	0.16	0.31	O/C, Red Phase 86.86 Supervision		Due to Red Phase CT Damaged of 66KV Chabhal Line	Supply Effected
154	132 KV Balluana-Bathinda	10-06-2019	23.05	10-06-2019	23.19	0.14	E/F		Due to PT Damage at Gidderbaha Grid	affected
155	132 KV Firozshah -Kolkataor Line	11-06-2019	09.45	11-06-2019	09.52	00.07	Y Phase O/C		Overloading (Supply of 132 KV Mana Singh wala was fed from 132 KV S/S Ferozeshah instead of 220 KV S/S, Ferozpur)	All supply fed from 132 KV S/S Ferozeshah
156	220 KV Baghapurana-Balakhana, Ckt-1	11-06-2019	09.54	11-06-2019	11.11	1.17	O/C, RYB Phase, E/F		Due to heavy storm	affected
157	132KV BBMB JAL -Kahanpur	12-06-2019	16.58	12.6.19	18.18	1.2	Dpr, AN Tripped phase C, Z-1, FL-3.535km	Dpr csc 162, RN,Z-1,fl-5.375km	Transient Fault	effected(00.12h (rs)
158	132kv Pims-Science city	12-06-2019	16.34	12.6.19	17.15	0.41	Not tripped	Dpr, Razoa, Earthfault	Transient Fault	effected(00.02h (rs)
159	132kv BBMB JAL -Focal point	12-06-2019	17.02	12.6.19	17.15	0.13	Dpr, CN,Z-1,fl-5.805km	Dpr, L3,E pick up, Z-1	Transient Fault	effected(00.13h (rs)
160	132KV GORYA- PHAGWARA CKT NO. 1	12-06-2019	17.16	12.06.19	18.52	1.36	YELLOW PHASE O/C	BREAKER NOT TRIPPED	DUE TO BAD WITHEATHER AND STORM	Supply effected =00.41 HRS
161	132KV GORYA- PHAGWARA CKT NO.2	12-06-2019	17.16	12.06.19	18.53	1.37	YELLOW PHASE E/F	BREAKER NOT TRIPPED	DUE TO BAD WITHEATHER AND STORM	Supply effected =00.41 HRS
162	132KV Dorana-Bilaspur-Sihora	12-06-2019	18.35	13.6.19	2.35	8	O/C,B-Phase, E/F		R-phase Breakdown between tower no 31 to 33.	Supply Effected
163	132 kv Swaddi - Moga	12-06-2019	17.45	13.6.19	11.25	17.4	DDR, 14.00km		Earth Breakdown between Tower No 128 to 131	Supply Effected
164	132 kv Swaddi - Jamalpur	12-06-2019	18.16	13.6.19	23.03	28.47	Trip		Earth Breakdown between Tower No 26-27,33-34,46-50	Supply Effected
165	220 kv Sahnawal - Railway Ckt-2	12-06-2019	18.36	12.6.19	19.35	0.59	Trip,67a,Z-1		Supply Restored after instructions of PC Patiala	Supply Effected
166	220 kv Sahnawal - Railway Ckt-1	12-06-2019	18.36	13.6.19	10.59	16.23	Trip 67A,Zone-1,2.5 km		Transient Fault	Supply 00.59 Effected
167	220 KV Baghapurana-Balakhana Ckt-1	12-06-2019	10.09	12-06-2019	11.17	01.08	O/C, RYB Phase, E/F		Due to heavy storm	affected
168	220 KV Mansa- HMEL Refinery -2	12-06-2019	12.06	12-06-2019	17.13	0.15	RN-Ph Z-1 KM		After taking permission from PC Patiala,try was taken. Line holded successfully.	affected
169	220 KV Talwandi Sabo-Railway	12-06-2019	17.29	12-06-2019	18.03	0.34	BC-Ph, Z-1 KM		Tripped due to heavy windstorm/bad weather. After taking permission from PC Patiala, try was taken late. Line holded successfully.	affected
170	132 KV Moga- Ghollan Kalan	14-06-2019	07.58	14-06-2019	08.19	0.21	UVR	132 KV PT Supply Fault (PT Fuse Failure)		affected
171	132 KV Moga- Ghollan Kalan	14-06-2019	08.22	14-06-2019	09.22	1.0	UVR	132 KV PT Supply Fault (PT Fuse Failure)		affected
172	132KV Pathankot-Kangra Ckt-1&2	15-06-2019	19.25	15.6.19	19.38	0.13	E/F, Master Trip 86	E/F 86	Due to Heavy Zark	Supply Effected
173	132KV BBMB JAL -Focal point	15-06-2019	16.20	15.6.19	16.25	0.05	Not tripped	Dpr, Earthfault	Transient Fault	Supply Effected(00.05h (rs)

174	132KV BBMB JAL -Dhiliwan	15-06-2019	17.03	15.6.19	17.06	0.03	DPR, CN.Z-1, fr-7.67km	not tripped	Transient Fault	affected(00.02h rs)
175	132 KV HAMIRPUR-CHOHAL	15-06-2019	23.20	15.06.19	23.50	0.30	BREAKER NOT TRIPPED	YELLOW PHASE ZONE 1ST & 2ND NEUTAL	DUE TO BAD WTHETHER AND STORM (LINE PATTROL BUT Transient Fault)	Supply affected =00.30 HRS
176	132 KV HOSHARPUR- CHOHAL	15-06-2019	23.20	16.06.19	0.05	0.45	YELLOW PHASE ZONE 2ND	DPR RED&YELLOW PHASE	DUE TO STORM	Supply effected =00.30 HRS
177	132KV TANDA-BHOGPUR	15-06-2019	16.10	15.06.19	17.02	0.52	BREAKER NOT TRIPPED	BLUE PHASE ZONE 1ST	DUE TO BAD WTHERRATHER AND STORM	Supply effected =00.52 HRS
178	132KV MPH2-TANDA	15-06-2019	16.10	15.06.19	17.25	1.15	ZONE 2ND E/F	EARTH FAULT	DUE TO BAD WTHERRATHER AND STORM	Supply effected =00.52 HRS
179	220 KV Bajakhana- Baghapurana CK-2	15-06-2019	16.54	15-06-2019	18.29	1.35	AN-Ph, Z-1 KA	8.961	Tripped due to heavy windstorm/bad weather. After taking permission from PC Patalia, try was taken, Line holded successfully.	affected
180	220 KVMoga- BaghapuranaCK-1	15-06-2019	16.54	15-06-2019	17.45	0.51	E/F		Due to heavy storm	affected
181	220 KV Taiwandi Sabo-Railway	15-06-2019	18.50	15-06-2019	20.16	1.26	BCN-Ph, Z-1 KM	3.51	Tripped due to heavy windstorm/bad weather. After taking permission from PC Patalia, try was taken late, Line holded successfully.	affected
182	132KV TANDA-BHOGPUR	16-06-2019	12.35	16.06.19	12.45	0.10	RED PHASE AND N	BREAKER NOT TRIPPED	Line Charge from Bhogpur end	Supply effected =00.10 HRS
183	132KV MPH2-TANDA	16-06-2019	12.35	16.06.19	13.15	0.40	ZONE 1ST 86X1, Z1	RED PHASE, N, Zone 1st	LINE PATTROL BUT Transient Fault	Supply effected =00.10 HRS
184	132KVBBMBJAL -Focalpoint	17-06-2019	17.52	17.6.19	18-20	0.28	Not tripped	Dpr. L1, E pickup Z-2	Transient Fault	affected(0.28hr s)
185	220KV Chajli-Bhawan-1	17-06-2019	15.55	17.06.19	16.05	0.10	O/C Y ph, Zone - none,	Not Tripped	Jerk caused by tripping of 220 KV Chhajli-Bangan lines	Yes
186	220KV Chajli-Bhawan-2	17-06-2019	15.55	17.06.19	17.05	1.10	O/C Y ph, Zone - none,	Not Tripped	Jerk caused by tripping of 220 KV Chhajli-Bangan lines	Yes
187	132 kv Swaddi - Moga	17-06-2019	18.4	17.6.19	19.5	1.1	RVB-Phase,86		Supply Restored after instructions of PC Patalia	Supply 01.08 MIN. Effected
188	132 kv Swaddi - Jamaipur	17-06-2019	18.42	18.6.19	20.42	26	B-Phase,Zone-1, 24.1 km	Master trip	Earth Breakdown between Tower No 91to 96	Supply 01.08 MIN. Effected
189	220 KV Bajakhana-Sandhwan	17-06-2019	22.08	18-06-2019	09.42	11.34	B-Ph, Z-1 KM	30.00	Tripped due to heavy windstorm/bad weather. After taking permission from PC Patalia, try was taken late, Line holded successfully.	affected
190	132 Kv Balluana-Bathinda	17-06-2019	22.38	18-06-2019	00.20	1.42	R-phase o/c,z-1, 9.80km		due to storm	affected
191	132 KV MUKATSAR-SADIQ/Fan	19-06-2019	07.10	19-06-2019	14.12	07.02	Earth Fault		Tree touching the conductor Due to Earth wire broken and set right.	affected
192	132KV Civil Line -Power Colony	20-06-2019	11.43	20.6.19	15.2	3.37	O/C,E/F, Red Phase			Effected Supply
193	132KV GORVA- PHAGWARA CKT NO 1	20-06-2019	13.51	20.06.19	14.32	0.41	YELLOW PHASE E/F	BREAKER NOT TRIPPED	DUE TO BAD WTHERRATHER AND STORM	Supply effected =00.41 HRS

194	132KV GORRYA- PHAGWARA CKT NO 2	20-06-2019	13:51	20:06:19	14:33	0.42	YELLOW PHASE E/F	BREAKER NOT TRIPPED	DUE TO BAD WTH-WEATHER AND STORM	Supply effectected =00.41 HRS
195	132 kv Ghulal - Ropar	20-06-2019	14:14	20:6:19	14:35	0.21	DPR, Y-Phase, E/F, Zone- 2		Due to heavy storm	Supply Effectted
196	132 kv Ghulal - Chamkaur Sahib	20-06-2019	14:14	20:6:19	14:48	0.34	Directional E/F		Due to heavy storm	Supply Effectted
197	132KV Dorana-Bilaspur-Sihora	20-06-2019	14:35	20:6:19	15:06	0.31	RN-Phase,Zone-1, 3		Due to heavy storm	Supply Effectted
198	132 kv Bilaspur - Sihora	20-06-2019	14:35	20:6:19	15:37	1.02	E/F, O/C, 86		Due to heavy storm	Supply Effectted
199	132 KV MUKATSAR-SADIQ/Far	20-06-2019	14:20	20:06-2019	15:10	0.50	Master Trnp		Due to Heavy Storm with rain	affected
200	132 Kv Balluana-Bathinda	20-06-2019	14:46	20-06-2019	15:32	0.46	R-phase o/c,z-1, 9.40km		due to storm	affected
201	132KV Verpal-Mall mandi	24-06-2019	17:54	24:6:19	18:14	0.2	O/C, Blue phase Highset 86		Transient Fault	Supply Effectted
202	132KV BBMB JAL -Dhliwan	24-06-2019	14:29	24:6:19	15:00	0.31	Dpr, CN,fl-15 94km,Z-1	Not tripped.	Transient Fault	effectted00 02hr s)
203	132KV Wadala Granthian- Batalla Ckt-1	29-06-2019	12:16	29:6:19	12:27	0.11	Dir, E/F		Due to 132KV Dharwal- Batalla Line overloading	Supply Effectted
204	132KV Wadala Granthian- Batalla Ckt-2	29-06-2019	12:16	29:6:19	12:27	0.11	Dir, E/F		Due to 132KV Dharwal- Batalla Line overloading	Supply Effectted
205	132KV Batala -Dharwal Ckt-1	29-06-2019	12:16	29:6:19	12:5	0.34	O/C 86		Due to 132KV Dharwal- Batalla Line overloading	Supply Effectted
206	132KV Batala -Dharwal Ckt-2	29-06-2019	12:16	29:6:19	12:5	0.34	L1, Pickup, L2 Pickup Dir, O/C E/F		Due to 132KV Dharwal- Batalla Line overloading	Supply Effectted
207	132KV Gurdaspur-Sarna Ckt-1	29-06-2019	12:15	29:6:19	12:45	0.3	Dir, E/F		Due to Fastway City Cable Touched with line conductor.	Supply Effectted
208	132KV Dharwal- Gurdaspur Ckt- 2	29-06-2019	12:15	29:6:19	13:01	0.46	Razoa Tn2		Due to heavy zark	Supply Effectted
209	132KV Wadala Granthian- Batalla Ckt-3	29-06-2019	12:16	29:6:19	12:28	0.12	Dir, E/F		Due to 132KV Dharwal- Batalla Line overloading	Supply Effectted
210	132 KV S/S RTP -132 KV GAQL	29-06-2019	17:19	29:06:19	19:58	2.46	RYB phase,zone 1,		Due to heavy storm eucalplus tree fell on conductor in span no 12-13	YES
211	132 kv Swaddi - Jamalpur	30-06-2019	11:06	30:6:19	13:32	2.26	CGS,Zone-2, 49.00km		Transient Fault	Supply 00:39 MIN, Effectted
212	220 KV Talwandi Sabo-Railway	30-06-2019	21:17	30-06-2019	21:40	0.23	BN-Ph Z-1 9.169 KM		Tripped with 66/11 KV 20 MVA P/T/F T-3	affected
213	220KV Verpal-Rashtana	01-07-2019	20:15	02-07-2019	09:21	13.06	Distance relay DP Main- 1, Zone-1 ABC C6 Fault 20-33KM DP Main -2 Zone 2-2 AN80-1 80,80,80CD 75D 95C		Found nothing	Supply Effectted From 20:15 to 20:42 =0- 27mint-
214	132 Kv Swaddi - Jamalpur	08-07-2019	14:55	08-07-2019	17:01	02:06	PN-Phase,Zone-1, 17-2 km	CGF,Zone-1,16-8 km	Found nothing	Supply 01:02 min-Effectted
215	220KV Chajili - Bangan Ckt-1	17-06-2019	15:55	08-07-2019	09:01	497:06	DPR R Y B φ Zone-1, 15- 8km	DPR R Y B φ Zone-1, 5- 8km	5 Tower fell down due to strong winds; Msg delivered to AOTL	Supply Affected for 10 minutes
216	220KV Chajili - Bangan Ckt-2	17-06-2019	15:55	08-07-2019	09:46	497:51	DPR R Y B φ Zone-1, 15- 8km	DPR R Y B φ Zone-1, 7- 5km		Supply Affected for 10 minutes
217	132KV Hakima Gate-Verpal Ckt-1	10-07-2019	22:28	11-07-2019	13:25	14:57	DPR DN Zone-1		Yellow Phase Jumper of Tower NO- 1 Burnt	Supply Affected From 22-28 to 23-38 = 1-10 mint-

218	132 K-V - Moga-Ghollan Kalan Line	10-07-2019	23:55	11-07-2019	09:30	09:35	RB Ph- 2.3, 2.7 KM, E/F		Nothing Found	All o/g Supply From 132 K-V. s/s Gholia Kalan Affected - Supply of 132 K-V- S/S Samadh Bhai ( Fedeed From 132 KV Gholia Kalan ) affected for 1:50 ( 132 KV Samadh bhai backfeeded from 66 KV S/S Dina Sahib )
219	132KV Swaddi Kalan - Jamaipur	10-07-2019	23:55	11-07-2019	15:03	15:08	ON	BCGF, Zone -1	Found nothing	Supply affected for 02-42Mins-
220	220 KV Ghulal - RTP	12-07-2019	02:40	12-07-2019	13:38	10:58	B-Phase		B-Phase Discs Flashed at Tower No-169	Supply 01-15 min- Effected
221	132 kv Swaddi -Jamaipur	14-07-2019	20:36	15-07-2019	12:30	15:55	Directional Prot- Operate, Trip 86,5-3 km		Found nothing	Supply 01-20 Min- effected
222	132 KV Moga-Ghollan kalan	16-07-2019	23:33	17-07-2019	18:50	19:17	R Ph E/F, 5-3 km		Tree cutting done between tower no 24 And 25-	All outgoing Supply of 132 KV S/S Ghollan kalan for 01:19 (restored from 132 KV S/S samadbbhai at 00:52)
223	132 KV Kolkaror-Ferozeshah Line	19-07-2019	22:35	20-07-2019	13:40	15:05	O/C RB Ph + E/F		No Fault Found	132 KV S/S Ferozeshah for 20 mins only (Backfeeding from 132 KV S/S Mana Singh Wala)
224	220 kv G-2 - Ganguwal	19-07-2019	18:22	19-07-2019	23:19	04:57	On	Trip	Line Energised after the Instruction Of PC Patiala	Supply 00-20 Min- Effected
225	220 kv G-2 - Bhari	19-07-2019	18:22	20-07-2019	14:28	20:06	O/C, E/F, Trip		R-phase discs flashed at Tower No-206 & Earth B/D Between Tower No-205 To 210	Supply 00-20 Min- Effected

226	132 KV Moga-Ghollia kalan line	23-07-2019	11:18	23-07-2019	15:20	04:02	R Ph, Z-1, 6 Km		No Fault Found	Supply effected for 39 Minutes (Backfeeding taken at 11:57 from 66 KV S/S Dina Sahib)
227	132 KV Moga-Panjgrai line	24-07-2019	07:01	24-07-2019	15:55	08:54	BN Ph, Z-1, 26.5 Km		Y Ph Disc Spring changed at tower no- 443 And B Ph Disc Spring changed at tower no- 444	Supply effected for 23 min- (backfeeded from 132 KV S/S sarainaga at 07:24)
228	132KV Butari - Tarn Taran	26-07-2019	13:33	26-07-2019	17:54	04:21	Red Phase O/C, E/F, 68-N	Breaker Off	No Fault Found	Supply affected for 4-21Hrs-
229	132KV Kanpur - Bhogpur Line	26-07-2019	18:55	27-07-2019	13:35	18:40	Master Trip, DPR, Blue Phase	Not Trip	No Fault Found	Supply affected for 00-20Mins-
230	220 kv G-1 - Bassi Pathana	27-07-2019	19:16	28-07-2019	19:15	23:59	Zone-1, C-phase		B-Phase Discs Flashed at Tower No-184 & Earth B/D Between Tower no-181 To186	Supply 00:28 Min- Effected (Bassi Pathana)
231	132 kv Swaddi - Jamalpur	10-08-2019	21:44	11-08-2019	17:16	19:32	Y-Phase, E/F, 0.7 km	Y-Phase, E/F, Zone-2, 34.2 Km	Earth wire breakdown at Tower No-116/14	Supply 00:21 Min Effected
232	132KV Verpal-Hakima Gate CK-1	18-08-2019	05:10	18-08-2019	10:41	05:31	Y Phase E/F, O/C Highset	SOTF Trip ABC	Found Nothing	Supply effected from 5-10 to 5-49 =0-39 mint
233	220 kv Bassi pathana -RTP	20-08-2019	09:25	20-08-2019	21:57	12:32	DPR, L-1, L-2, Main-1, Zone-1		Found Nothing	Supply 00:27 Min Effected
234	220KV G-1 - G-3	21-08-2019	20:25	22-08-2019	14:13	17:48	Micom P-442, E/F, R-Ph, Z-2	E/F, HSU, ABC-Ph	R-Phase Discs Flashed at Tower No-231 & R-Phase Jumper Burnt at Tower No-243	Supply 00:33 Min Effected (G-3)
235	132 KV Moga-panjgrain Kalan	28-08-2019	05:33	28-08-2019	07:10	01:37	O/C B Ph, E/F, 27.4 km		Nothing Found	Supply of 132 KV S/S Panjgrain Kalan effected for 17min- (restored for 132 KV S/S Sarainaga)
236	132 KV Batala- Pakharpura Line	02-09-2019	07:35	02-09-2019	12:15	04:40	Directional o/C Master Trip		Found Nothing	Supply Effected from 07:35 to 8-12=00-37(min)

237	132 KV Tarn Taran-Verpal Line	02-09-2019	08:56	02-09-2019	13:55	04:59	O/C 67C 86		Found Nothing	Supply Effected from 8:56 to 09:23=00-27(min)
238	132 kv Doraha - Bilaspur - Sihc	04-09-2019	11:22	04-09-2019	15:03	03:41	Razoa,DPR,Trip, Zone-2		Found Nothing	Supply Effected
239	220 kv Bassi Pathana -RTP	04-09-2019	04:15	04-09-2019	06:39	02:24	On	Trip	Found Nothing	Supply 00:30 Min-Effected
240	132 KV Gidderbaha-Channu Line	05-09-2019	07:15	05-09-2019	15:28	08:13	BN-ph, Z-1, 8-2 Km		Y-ph Disc Changed Tower No 33	Channu Plant only
241	132 KV Srainaga-Kotkapura-2 Line	07-09-2019	06:19	07-09-2019	20:50	14:31	DPR RB ph,Z1,30-77 km		Breakdown between tower no- 386 &387 Y Ph	132 KV S/S Kotkapura-2 Charged from 132 KV Panigral Line at 06:53- 132 KV S/S Kotkapura-2 Supply effected for 34 Minutes only-
242	132KV Batala-Kathunangal	08-09-2019	11:43	08-09-2019	17:10	05:27	L-1, Pickup, E/F Distance 86	O/C, Red Phase Zone-1 86 REN 670	Found Nothing	Supply Effected From 11-43 to 11:58= 0-15Min-
243	132 KV Gidderbaha- Channu line	14-09-2019	00:58	14-09-2019	15:10	14:12	O/C B-ph, E/F, L=7-8 Km, Z-1,82-65%		Replacing Insulator String of B-ph of Tower No 34	only Channu Plant
244	132 kv Srainaga- Kotkapura-2	15-09-2019	21:54	16-09-2019	21:05	23:11	DPR B ph,Z1,4-5 KM		Due to damage of PT blue Ph at 132 KV S/S Kotkapura-2, Line Patrolling done as per PC instructions , no Fault Found -	132 KV S/S Kotkapura-2 for 2:45 Hrs as 132 KV SS Kotkapura-2 fed from 220 KV SS Moga side at 0:39 (16-09-2019)
245	132KV GURDASPUR-SARNA CKT-1	20-09-2019	13:48	20-09-2019	19:10	05:22	DIFF DPR, 86 ZONE- A,104		FOUND NOTHING	Supply Effected from 13-48 to 13:58=0-10 mint-
246	220KV Maler Kotla - Dhuri Ckt-2	23-09-2019	09:45	23-09-2019	20:56	11:11	Main -1 Blue Phase, Zone-1, Dist-18-63KM, Main-2,Blue Phase, Zone-1 Dist-18-66KM	Main-1, Blue Phase, Zone-1, Dist-4-3KM, Main-2 Blue Phase, Zone-1,Dist-4-65KM	Line Charged as per PC Patiala approval from Dhuri end Due to fault in breaker at Maler Kotla end-	Supply Effected for 00:28Mins- Due to L-L-B operated at Maler Kotla end-

247	132 kv Anandpur Sahib - Nakian ASPH -2	26-09-2019	17:26	26-09-2019	19:56	02:30	O/C N $\phi$ zone -1 Distance 6-04 km M/Trip	R Y B $\phi$ Zone -2	2 NO Machines Trip of gangawal power house end	Supply Affected at 17:26 to 17:52 hrs( 26 mins )
248	132 KV Malout-Abohar Line	28-09-2019	14:31	28-09-2019	19:20	04:49	O/C R-ph, E/F		R-ph jumper Damged at Gantry (132 KV S/S Malout )	All 11 KV O/G Supply affected for 24 min- at 220 KV S/S Abohar
249	132 KV Swadi - Jamalpur	28-8-19	01:55	28-09-2019	17:14	15:19	R Phase 4.2 Km	R Phase 28-8 KM Z-1	Found Nothing	Supply 25 Min Effected
250	220 Kv Shanawal - Kohara	28-8-19	15:04	28-09-2019	01:40	10:36	A Phase Z-2 Trip 14.6 Km	RYB Z-1 Trip	Earth Break Down at tower No 213	Supply 16 Min Effected
251	220 KV Abohar - Shri Mukatsar Sahib ( 400 K.V - ) Ckt No 201	30-09-2019	00:58	30-09-2019	04:44	03:46	Over voltage trip		Ckt No 202 was already off from 400 KV S/S Shri Mukatsar Sahib from 23:46, 29-09-19 due to overvoltage	Supply from 220 KV S/S Abohar For this time
252	132 KV Malout-Muksar	01-10-2019	07:40	01-10-2019	08:04	00:24	E/F Ryb Ph. Zone-2, 19.926km	ON	Transient Fault occurred. Line charged after taking approval from PC Patiala	affected
253	132 KV Malout-Muksar	01-10-2019	20:43	01-10-2019	21:07	00:24	E/F O/C B Ph. Zone-1 15.239 Km	BN Ph O/C, E/F, Z-1 12.5KM	Line Tripped Due To Temporary Flashover of Disc Insulators	affected
254	132 KV MUKATSAR- MUKATSAR LINK-1	01-10-2019	7:41	01-10-2019	7:56	00:15	Over current + Earth Fault, RY phase	ON	Line Tripped Due To Temporary Flashover of Disc Insulators	affected
255	132 KV MUKATSAR- MUKATSAR LINK-2	01-10-2019	7:41	01-10-2019	7:56	00:15	Over current + Earth Fault, RY phase	ON	Line Tripped Due To Temporary Flashover of Disc Insulators	affected
256	132 KV MUKATSAR- SADIOI/Fandkot	01-10-2019	21:34	01-10-2019	21:40	00:05	Main DPR -1 overcurrent, Zone-1,2,3, Distance- 14.94 KM, Phase ABC	ON	Transient Fault occurred. Line charged after taking approval from PC Patiala	affected
257	132KV SARAINAGA Muktsar LINE	01-10-2019	7:41	01-10-2019	11:25	03:44	B N ph,O/C, E/F	ON	Line Tripped Due To Temporary Flashover of Disc Insulators	affected
258	132 KV MUKATSAR- SADIOI/Fandkot	02-10-2019	0:02	02-10-2019	0:07	00:05	Main DPR -1 overcurrent, Zone-1,2,3, Distance- 14.99 KM, Phase ABC	ON	Transient Fault occurred. Line charged after taking approval from PC Patiala	affected
259	132 KV MUKATSAR- SADIOI/Fandkot	02-10-2019	1:44	02-10-2019	1:55	00:11	Main DPR -1 overcurrent, Zone-1,2,3, Distance- 15.02 KM, Phase ABC	ON	Line Tripped Due To Temporary Flashover of Disc Insulators	affected
260	220 KV Nabha-Faggannajra Ckt 1	02-10-2019	01:52	02-10-2019	04:51	02:59	Circuit Breaker was ON from Nabha end, manually switch-off the circuit breaker.	DPR Z-2, YB-phase, Ia=1KA, Ib=1KA, Ic=6KA	Due to damage of B-phase CT of 220 KV Nabha-Faggannajra Ckt-2 at Nabha S/S.	affected
261	220 KV Nabha-Faggannajra Ckt 2	02-10-2019	01:52	03-10-2019	16:02	38:10	DPR Main-1 Z-1, RYB Ia=739.21A, Ib=917.24A, Ic=107.48KA DPR Main-2 Z-1, RYB	DPR Z-2, B-phase, Ic=4.0 KA, 35KM	Due to damage of B-phase CT of 220 KV Nabha-Faggannajra Ckt-2 at Nabha S/S.	affected



262	220 KV Nabha-Bhawanganah Ckt-1	02-10-2019	01 52	02-10-2019	04:39	02:47	Circuit Breaker was ON from Nabha end, manually switch-off the circuit breaker.	ON	Due to damage of B-phase CT of 220 KV Nabha-Fagganmajra Ckt-2 at Nabha S/S.	affected
263	220 KV Nabha- Bhawanagarh Ckt-2	02-10-2019	01 52	02-10-2019	03:22	01:30	Circuit Breaker was ON from Nabha end, manually switch-off the circuit breaker.	ON	Due to damage of B-phase CT of 220 KV Nabha-Fagganmajra Ckt-2 at Nabha S/S.	affected
264	132KV Gurdaspur-Sama Ckt-1	03-10-2019	18 08	03-10-2019	18 15	0 07	E/F 86 DPR	ON	Temporary fault due to heavy windstorm	affected
265	132KV Gurdaspur-Sama Ckt-2	03-10-2019	18 08	03-10-2019	18 15	0 07	E/F, 86	ON	Temporary fault due to heavy windstorm	affected
266	132KV TANDA-BHOGPUR	03-10-2019	18 20	03-10-2019	18 45	0 25	B-PHASE N	DIRECTIONAL E/F	B-PHASE STRING FLASHED AT T. NO. 71/06,74&119&R-PHASE STRING FLASHED AT T. NO.128	affected
267	132 KV Moga- Gholla Kalan	03-10-2019	19:47	03-10-2019	20 06	0 19	O/C, Y-Phase, E/F, Z1,Z2,Z3 6 0 Km	ON	Transient Fault occurred. Line changed after taking approval from PC Patalia	affected
268	132KV KOTKAPURA-1 Muktsar LINE	04-10-2019	14:18	04-10-2019	14 32	00:14	Y ph, O/C, E/F, z-1, 15.3 km	E/F, B Ph.	Transient Fault	affected
269	132 KV Moga- Gholla Kalan	04-10-2019	19:39	04-10-2019	19 55	0 16	O/C R-Phase, E/F, DPR, Z1, 5.3 Km	ON	Temporary fault occurred due to flash over disc insulators.	affected
270	132 KV Ghollan Kalan	06-10-2019	22:44	07-10-2019	14 40	15:56	O/C, R-Phase, PR, Z1, 5.7 Km	ON	Conductor Breakdown at Ganthy 132 KV S/S Gholla Kalan	affected
271	132 KV Muktsar Kothkapura-1 Line	06-10-2019	22:02	06-10-2019	22 12	00:10	DPR opid, Y ph, Zone 1, 15.8KM	Z-1, YNPh, 10.8KM	Line charged after taking approval from PC Patalia	affected
272	132KV Gurdaspur-Sama Ckt-1	07-10-2019	10 38	07-10-2019	10 52	0 14	Master Trip E/F 86	ON	Due to accident at 132KV S/Sin Batala Bus-bar and burnt of 2No jumpers.	affected
273	132KV Gurdaspur-Sama Ckt-2	07-10-2019	10 38	07-10-2019	10 52	0 14	86, E/F Master Trip	ON		affected
274	132KV Gurdaspur-Dharawal Ckt-1	07-10-2019	10 38	07-10-2019	10 57	0 19	E/F	ON		affected
275	132KV Wadala Granthian-Batala Ckt-1	07-10-2019	10 37	07-10-2019	11 21	0 44	Diff, E/F	ON		affected
276	132KV Wadala Granthian-Batala Ckt-2	07-10-2019	10 37	07-10-2019	11 21	0 44	Diff, E/F	ON		affected
277	132KV Wadala Granthian-Batala Ckt-3	07-10-2019	10 37	07-10-2019	11 21	0 44	Diff, E/F	ON		affected
278	132KV -Batala- Pakharpura	07-10-2019	10 38	07-10-2019	12 09	1 31	Diff, E/F	ON		affected
279	132 KV Muktsar Kothkapura-1 Line	07-10-2019	0:25	07-10-2019	0:32	00:07	E/F & O/C, B ph 86	YN Ph, Z-1 10.8KM	Line charged after taking approval from PC Patalia	affected
280	132 KV Muktsar Kothkapura-1 Line B-2	08-10-2019	16 06	08-10-2019	16 18	00:12	DPR opid, Y ph, Zone 1, 14.45KM	YN Ph, Z-1 10.8KM	Line charged after taking approval from PC Patalia	affected
281	132KV Verpal-TarnTaran	09-10-2019	13 35	09-10-2019	17 18	3 43	E/F Highset	ON	Due to Red Phase Jumper Burnt of 220KV Bus-Bar No-1 at 220KV Verpal and set right	affected
282	132KV Verpal-Mall Mandi	09-10-2019	13 35	09-10-2019	14 26	0 51	E/F, Highset	ON	Due to Red Phase Jumper Burnt of 220KV Bus-Bar No-1 at 220KV Verpal and set right	affected
283	132 KV Pangrain Kalan	09-10-2019	06:42	09-10-2019	06 53	00 11	O/C, B Phase, E/F, Z-1, 23 6 Km	BN Ph, Z-1, 23 6KM	Line Tripped Due To Temporary Flashover of Disc Insulators	affected

284	132 KV MUKATSAR-SADIQ/Fandkot	09-10-2019	5.32	09-10-2019	5.37	00.05	Main DPR -1 overcurrent Earth fault ,Zone-1, Distance 8.98 KM, Phase Y	ON	E/F, High set, O/C	Transient Fault occurred. Line changed after taking approval from PC Patiala	affected
285	220 kv G-2 - G-3	09-10-2019	5.12	09-10-2019	6.00	0.48	on	E/F, High set, O/C	Transient Fault occurred. Line changed after taking approval from PC Patiala	affected	
286	220 kv G-2 - G-1	09-10-2019	5.12	09-10-2019	6.12	1.00	Directional E/F, Zone-2 Trip	ON	Fault occurred due to flash over disc insulators.	affected	
287	220 kv G-2 - Ganguwal	09-10-2019	5.12	09-10-2019	7.14	2.02	RYB,Phase,Zone-4, master Trip	ON	Earth wire B/D between Tower no 212to214	affected	
288	220 kv G-2 - Bhan	09-10-2019	5.12	09-10-2019	7.12	2.00	O/C,E/F, Master Trip	ON	Fault occurred due to flash over disc insulators.	affected	
289	220 kv Bhan - Ganguwal	09-10-2019	5.12	09-10-2019	7.55	2.43	O/C,E/F	PDR Operated, Main-2	Fault occurred due to flash over disc insulators.	affected	
290	132KV Verpal-Mali Mandi	11-10-2019	4.26	11-10-2019	5.08	0.42	O/C,E/F	ON	Due to Tripping of 132KV Verpal-Hakima Gate Ckt-1	affected	
291	132KV Verpal-Hakima Gate Ckt-1	11-10-2019	4.26	11-10-2019	15.48	11.22	Y phase O/C, 86	O/C	Due to Yellow Phase String flashed at Tower No 112	affected	
292	220KV Wadala Grantian-Verpal Ckt-2	12-10-2019	8.49	12-10-2019	9.53	1.03	Main-1 Any Trip ABC Zone-2 Main-2 RYB Phase Zone-2,86	ON	Due to loose bus-bar Jumper at bus-bar No. 1 & 2 at 220KV S/S Verpal and replaced 8No. Jumper on dt. 14/10/19	affected	
293	132 kv Kolkaror Ferozshah Line	13-10-2019	07.29	13-10-2019	07.45	00.16	E/F O/C	E/F, Yph	Due to tripping caused by damaged Vacuum Interrupter	affected	
294	132 kv Mana singh wala Ferozshah Line	13-10-2019	07.29	13-10-2019	08.01	00.32	O/C,E/F	ON	of 11kv Sehzad UPS fed from 10/12.5 MVA, 132/11 kv Power	affected	
295	132 kv Kolkaror - FerozshahLine	13-10-2019	07.29	13-10-2019	07.45	0.16	E/F O/C	ON	TF T-3	affected	
296	132 kv Ferozshah-Mana singh wala Line	13-10-2019	07.29	13-10-2019	08.01	0.32	O/C,E/F	ON		affected	
297	132 kv Malour-Muktsar	13-10-2019	10.24	13-10-2019	15.10	04.46	E/F O/C B Ph, Zone-1, 0.55km	BN Ph, Z-2 28 1KM	Transient Fault , line patrolled on the instructions of PC and line charged.	affected	
298	132 KV Muktsar Kolkapura-1 Line	15-10-2019	9.46	15-10-2019	9.58	00.12	E/F & O/C, B ph 86	Yph O/C, E/F, Z-1, 1.11 6KM	Line Tripped Due To Temporary Flashover of Disc Insulators	affected	
299	132 kv Malour-Abohar	16-10-2019	17.29	16-10-2019	17.47	00.18	O/C E/F B Ph	No Breaker Installed	Line Tripped Due To Temporary Flashover of Disc Insulators	affected	
300	132 KV Moga-Dhaleke	16-10-2019	12.26	16-10-2019	12.36	0.10	O/C - R Phase, E/F, Z1,Z2,Z3, 13.3 Km	No Breaker Installed	Temporary fault occurred due to flash over disc insulators.	affected	
301	132kv BBMB JAL-Dhiwan	18-10-2019	1.53	18-10-2019	2.05	0.12	DPR, RN,Z-1,FL-15.62KM	ON	Transient Fault occurred. Line changed after taking approval from PC Patiala	affected	
302	132 KV MAHIL PUR -BANGA	19-10-2019	10.35	19-10-2019	10.45	0.10	R- PHASE ZONE1ST	R- PHASE ZONE 1ST	TRIPPING DUE TO TEMPORARY FLASH OVER OF DISCS	affected	
303	132 kv Malour-Abohar	20-10-2019	07.57	20-10-2019	08.30	00.33	O/C E/F R Ph	No Breaker Installed	Line Tripped Due To Temporary Flashover of Disc Insulators	affected	
304	132 kv Malour-Muktsar	21-10-2019	11.28	21-10-2019	11.38	00.10	E/F R Ph, Zone-1, 19.431 Km	R Ph, O/C, Z-1, 15.5KM	Transient Fault,	affected	

305	132Kv Sultanpur-Khera mandir	21-10-2019	11.2	21-10-2019	11.3	0.10	Dpr. O/C YN Z-2-Z-3	ON	The Male and Female contacts of Y phase Line Isolators at Sultanpur s/s was damaged due to which line was tripped.	affected
306	132 Kv Malou-Gidderbaha	25-10-2019	08.45	25-10-2019	9.03	00.18	E/F Y Ph	E/F	Temporary Flashover of Disc Insulators	affected
307	132Kv BMB JAL-Dhliwan	25-10-2019	13.58	25-10-2019	14.58	1.00	Dpr. RN,Z-1,FL-15.61KM	ON	2 no. Disc insulator Found flashed of R-Phase at T no. 36 And same were replaced PTW No. 50 dt. 26.10.2019	affected
308	132 KV Muktsar Kolkapura-1 Line	28-10-2019	7.18	28-10-2019	7.25	00.07	E/F & O/C, Y ph 86	Y Ph O/C E/F, 11.7KM,Z-1	Line Tripped Due To Temporary Flashover of Disc Insulators	affected
309	220 kv Ladowal- Humbran	29-10-2019	11.40	29-10-2019	11.58	0.18	E/F	ON	Fault in R-Phase Isolator of T/F T-1	affected
310	220 kv Ladowal-Ferozepur Road	29-10-2019	11.40	29-10-2019	12.14	0.34	RYB-Phase, Trip	ON	Fault in R-Phase Isolator of T/F T-1	affected
311	220 kv Ladowal- Nakodar ckt-1	29-10-2019	11.40	29-10-2019	12.16	0.36	E/F	E/F,BPh,	Fault in R-Phase Isolator of T/F T-1	affected
312	220 kv Ladowal- Nakodar ckt-2	29-10-2019	11.40	29-10-2019	12.23	0.43	E/F,	E/F,BPh,	Fault in R-Phase Isolator of T/F T-1	affected
313	220 kv Aitwal - Jagraon	04-11-2019	0.17	04-11-2019	1.23	1.06	PRM-2,DTF,PRC	ON	Fault occurred due to flash over disc insulators.	affected
314	220 kv Aitwal - PGCL Moga	04-11-2019	0.17	07-11-2019	16.05	87.48	DIR DTF	ON	Fault in B-Phase Limb of SF-6 Ckt Breaker	affected
315	132KV Civiline-Power Colony	07-11-2019	18.10	07-11-2019	20.50	2.40	Dir. O/C, E/F	ON	Due to Wrong Settings of DPR at 132KV S/s/in Power Colony and Set right	affected
316	220KV Verpal-Rashiana	07-11-2019	14.01	07-11-2019	15.50	1.49	Main-1Protection Operated Main-2Protection Operated Zone-2 28.07KM ABC Trip	ON	Due to 220KV Blue Phase LA Damaged at 220KV Rashiana.	affected
317	132 KV Moga -Panjraian Kalan Line	07-11-2019	17.35	07-11-2019	17.50	00.15	O/C, B Phase, E/F, Z-1, 11.2 Km	ON	Line Tripped Due To Temporary Flashover of Disc Insulators	affected
318	132KV Mail Mandi-GT Road	11-11-2019	14.52	11-11-2019	15.03	0.11	E/F Relay	Breaker not installed	Due to Kite Thread Touched with line	affected
319	220 kv G-3 - G-1	11-11-2019	2.30	11-11-2019	3.05	0.35	Backup, Protection, E/F	ON	Temporary fault occurred due to flash over disc insulators.	affected
320	220 kv G-3 - G-2	11-11-2019	2.30	11-11-2019	3.10	0.40	Backup, Protection, E/F	ON	Transient Fault . Line Energised as Per Instructions of PC Patiala	affected
321	132KV Batala-Pakharpura	13-11-2019	20.20	13-11-2019	20.42	0.22	L3 pickup E/F	ON	Due to 132KV Bus Bar No-1 Blue phase PT Damaged at 132KV S/s/in Verka	affected
322	132KV Verka-Kathunangal	13-11-2019	20.20	13-11-2019	21.30	1.10	67N Master Trip 86-1.86-2 Dir. O/C, E/F	Blue Phase E/F 86-1.86-2 Dir. O/C E/F	Due to 132KV Bus Bar No-1 Blue phase PT Damaged at 132KV S/s/in Verka	affected
323	132 KV Malout-Abohar Line	15-11-2019	07.45	15-11-2019	08.12	00.27	O/C R PH	No Breaker installed	Line Tripped Due To Temporary Flashover of Disc Insulators	affected
324	132 kv Swaddi - Moga	17-11-2019	2.55	17-11-2019	11.30	8.35	B-Phase Zone-1, 4.188 km	C-Phase, Zone-1, 34.3 km	B-Phase Discs Flashed at Tower No-127	affected
325	132 kv Swaddi - Jamalpur	17-11-2019	4.03	17-11-2019	7.30	3.27	Trip	220KV Failed at Jamalpur	Fault in 220/132 kv 100 mva T/F at Jamalpur end	affected

326	132 kv Doraha- Bilaspur-Sihora	20-11-2019	11.38	20-11-2019	11.58	0.20	Razoa R&N -Phase Zone-2.83	No Breaker Installed	Temporary fault occurred due to flash over disc insulators.	affected
327	132 kv Bilaspur-Sihora	29-11-2019	11.23	29-11-2019	11.40	0.17	DPR O/C E/F	No Breaker Installed	Due to 11 kv Chhapra AP Feeder	affected
328	132KV Kathunangal-Batala	03-12-2019	16.40	03-12-2019	16.45	0.05	RB Phase Highset	ON	Due to temporary transient fault in system	affected
329	132KV Kathunangal-Verka	03-12-2019	16.40	03-12-2019	16.52	0.12	RB Phase Highset	ON	Due to temporary transient fault in system	affected
330	220KV Verpal-Rashiana	08-12-2019	2.35	08-12-2019	3.08	0.33	E/F, tripped	ON	Due to jerk at 220KV S/sin Rashiana.	affected
331	220KV Patti-Rashiana	08-12-2019	2.34	08-12-2019	3.01	0.27	Zone-1, Zone-4 86 Red Phase	ON	Due to jerk at 220KV S/sin Rashiana.	affected
332	132 KV Malout-Abohar	10-12-2019	13.27	10-12-2019	13.42	00:15	O/C B PH E/F ZONE 1, 4.934 KM	No Breaker Installed	Line Tripped Due To Temporary Flashover of Disc Insulators	affected
333	132 KV Malout-Abohar	11-12-2019	18.50	11-12-2019	19.22	00:32	RYB PH E/F ZONE 1, 17.81 KM	No Breaker Installed	Line Tripped Due To Temporary Flashover of Disc Insulators	affected
334	132KV Batala-Pakharpura	12-12-2019	15.07	12-12-2019	15.19	0.12	L1 Pickup E/F Pickup Master Trip 86 Zone-1	ON	Due to jerk at system because of Disc flashing at Tower No 816 of 132 kv Verka -Pakharpura Line	affected
335	132KV Verka-Kathunangal	12-12-2019	15.07	12-12-2019	15.24	0.17	Dir. O/C E/F	ON	Due to Disc flashing at Tower No 816 of 132 kv Verka -Pakharpura Line	affected
336	132kv BBMB JAL -Focal point	13-12-2019	9.08	13-12-2019	12.03	2.55	Dpr. ABN Z-1, FL-1 8KM	Dpr. L1L2L3, Z-2, FL-6.9KM	2 no. Disc Insulators Found flashed of R-phase at T no 8 and same were replaced PTW No. 90 dt. 14.12.2019	affected
337	220 KV Badal-Katorewala	16-12-2019	06.02	16-12-2019	06.37	00:35	PH BN Z-4, L-14 52KM	ON	Line Tripped Due To Temporary Flashover of Disc Insulators Supply Affected for 00:32 Hrs	affected
338	132KV Pathankot-Mamoon Line	21-12-2019	0.55	21-12-2019	1.05	0.10	Dir, E/F Y Phase O/C	ON	Due to Y Phase PT Damaged at 132KV S/sin Kangra.	affected
339	132KV Verpal-TamTaran	23-12-2019	13.55	23-12-2019	14.30	0.35	E/F Highset	E/F IDMT	Due to temporary transient fault in system	affected
340	132KV Madala Grantihan-Hargobindpur Line	30-12-2019	0.02	30-12-2019	2.01	1.59	DPR Razoa STN Zone-1	ON	Due to Y Phase PT Blast at 132KV S/sin Hargobindpur.	affected