

BIHAR GRID COMPANY LIMITED										
Loading level of Transmission Assets										
Voltage Grade	S.No	Name of TL	Load						Month:	January 2023
			MW						Avg of Month	Remark
			Max	Time	Date	Min	Time	Date		
A. Power Flow in 400kV transmission line										
400 kv (08 nos.)	1	Naubatpur - Patna(PG) ckt - 01	-472.77	20:00	06-01-2023	-43.8	15:00	26-01-2023	-315.60	
	2	Naubatpur - Patna(PG) ckt - 02	-474.26	20:00	06-01-2023	-44.34	15:00	26-01-2023	-316.94	
	3	Naubatpur - Balia(PG) ckt - 01	366.70	20:00	06-01-2023	0.09	02:00	27-01-2023	239.75	
	4	Naubatpur - Balia(PG) ckt - 02	369.40	21:00	08-01-2023	-0.66	04:00	27-01-2023	242.75	
	5	Jakkanpur - Nabinagar(NPGC) ckt - 01	-437.05	20:00	31-01-2023	-132.23	02:00	02-01-2023	-347.86	
	6	Jakkanpur - Nabinagar(NPGC) ckt - 02	-436.93	20:00	31-01-2023	-132.46	02:00	02-01-2023	-348.41	
	7	Jakkanpur - Patna(PG) ckt - 01	343.8	21:00	31-01-2023	44.54	08:00	02-01-2023	258.62	
	8	Jakkanpur - Patna(PG) ckt - 02	341.11	21:00	31-01-2023	44.62	08:00	02-01-2023	256.91	
B. Power Flow in 220kV transmission line										
220 kv (36 nos.)	1	Hajipur - Amnour ckt-01	-139.32	18:00	07-01-2023	-41.6	14:00	17-01-2023	86.62	
	2	Hajipur - Amnour ckt-02	-139.57	18:00	07-01-2023	-41.8	14:00	17-01-2023	82.60	
	3	Patna (PG) - Khagaul ckt-02	122.42	10:00	08-01-2023	16.17	04:00	21-01-2023	50.16	
	4	Patna (PG) - Khagaul ckt-03	121.17	10:00	08-01-2023	16.17	04:00	21-01-2023	49.96	
	5	Khijrsarai - Biharsharif ckt-01	-121.22	08:00	30-01-2023	-18.1	23:00	09-01-2023	-71.91	
	6	Khijrsarai - Biharsharif ckt-02	-123.22	08:00	30-01-2023	-17.82	23:00	09-01-2023	-72.19	
	7	Khijrsarai - Bodh Gaya ckt-01	-52.61	10:00	11-01-2023	0.06	12:00	07-01-2023	-23.44	
	8	Khijrsarai - Bodh Gaya ckt-02	-53.04	10:00	11-01-2023	0.05	12:00	07-01-2023	-23.55	
	9	Khijrsarai - Gaya (PG) ckt-01	-92.07	11:00	06-01-2023	-18.76	05:00	07-01-2023	-45.1	
	10	Khijrsarai - Gaya (PG) ckt-02	-92.38	11:00	06-01-2023	-18.82	05:00	07-01-2023	-45.16	
	11	Khijrsarai - Narhat ckt-01	158.55	18:00	12-01-2023	30.05	19:00	10-01-2023	78.95	
	12	Khijrsarai - Narhat ckt-02	159.92	18:00	12-01-2023	30.22	19:00	10-01-2023	78.93	
	13	Narhat - Sekhopur Sarai ckt-01	114.81	18:00	12-01-2023	2.69	19:00	10-01-2023	21.03	
	14	Narhat - Sekhopur Sarai ckt-02	114.78	18:00	12-01-2023	2.82	19:00	10-01-2023	21.03	
	15	Sekhopur Sarai - Haveli Kharagpur ckt-01	87.90	18:00	12-01-2023	2.4	13:00	06-01-2023	35.70	
	16	Sekhopur Sarai - Haveli Kharagpur ckt-02	87.20	18:00	12-01-2023	1.8	13:00	06-01-2023	35.29	
	17	Haveli Kharagpur - Goradih ckt-01	32.4	17:00	12-01-2023	15.9	15:00	24-01-2023	0.35	
	18	Haveli Kharagpur - Goradih ckt-02	42.1	10:00	12-01-2023	25.3	12:00	12-01-2023	0.37	
	19	Mokama-Biharsharif ckt-1	0.00	23:59	31-01-2023	0.00	01:00	01-01-2023	0.00	
	20	Mokama-Biharsharif ckt-2	0.00	23:59	31-01-2023	0.00	01:00	01-01-2023	0.00	
	21	Mokama-BTPS ckt-1	-70.70	09:00	11-01-2023	0.00	12:00	23-01-2023	-26.24	
	22	Mokama-BTPS ckt-2	-70.70	09:00	11-01-2023	0.00	12:00	23-01-2023	-14.77	
	23	Ara(PG)-Dumraon New - 01	-48.63	08:00	02-01-2023	-4.98	02:00	20-01-2023	-32.67	
	24	Ara(PG)-Dumraon New - 02	-48.63	08:00	02-01-2023	-4.96	02:00	20-01-2023	-32.69	
	25	Dumraon New-Nadokhar - 01	-53.48	10:00	10-01-2023	-0.02	15:00	25-01-2023	-41.38	
	26	Dumraon New-Nadokhar - 02	-53.83	10:00	10-01-2023	-0.04	15:00	25-01-2023	-41.63	
	27	Naubatpur- Ara(PG) Ckt-01	161.37	08:00	13-01-2023	18.67	04:00	21-01-2023	97.05	
	28	Naubatpur- Ara(PG) Ckt-02	162.62	08:00	14-01-2023	18.86	04:00	21-01-2023	97.10	
	29	Naubatpur- Khagaul Ckt-01	-56.03	19:00	01-01-2023	0.07	10:00	10-01-2023	-25.42	
	30	Naubatpur- Khagaul Ckt-02	-56.23	19:00	01-01-2023	0.06	10:00	10-01-2023	-25.52	
	31	Naubatpur- Bhusaula Ckt-01	5.27	09:00	13-01-2023	0.00	00:00	10-01-2023	3.03	
	32	Naubatpur- Bhusaula Ckt-02	9.74	18:00	11-01-2023	0.01	02:00	08-01-2023	2.89	
	33	Naubatpur- Bihta Ckt-01	-32.81	18:00	17-01-2023	-0.01	04:00	26-01-2023	-9.51	
	34	Naubatpur- Bihta Ckt-02	-32.75	18:00	17-01-2023	-0.05	04:00	26-01-2023	-9.52	
	35	Jakkanpur - Sipara ckt-03	91.38	10:00	08-01-2023	20.15	02:00	02-01-2023	59.01	
	36	Jakkanpur - Khagaul ckt	145.99	10:00	13-01-2023	56.77	04:00	21-01-2023	105.72	
C. Power Flow in 132 kV transmission line										
132 kv (40 nos.)	1	Amnour - Siwan ckt-01	72.08	09:00	13-01-2023	18.64	15:00	31-01-2023	45.15	
	2	Amnour - Siwan ckt-02	72.82	09:00	13-01-2023	18.84	15:00	31-01-2023	45.48	
	3	Amnour - Chhapara ckt-01	60.40	08:00	21-01-2023	9.8	00:00	16-01-2023	28.74	
	4	Amnour - Chhapara ckt-02	56.09	09:00	06-01-2023	9.70	00:00	16-01-2023	27.82	
	5	Khijrsarai - Bodh Gaya ckt -03	0.09	00:00	07-01-2023	0.00	14:00	06-01-2023	0.03	
	6	Khijrsarai - Wajirganj ckt -01	52.24	20:00	05-01-2023	0.00	14:00	19-01-2023	18.57	
	7	Khijrsarai-Hulasganj ckt-01	64.66	11:00	07-01-2023	0.10	13:00	08-01-2023	21.46	
	8	Khijrsarai - Jehanabad ckt-01	66.1	19:00	29-01-2023	9.07	23:00	09-01-2023	35.82	
	9	Khijrsarai - Jehanabad ckt-02	66.19	19:00	29-01-2023	9.11	23:00	09-01-2023	35.80	
	10	Narhat - Nawadah ckt-01	87.72	11:00	01-01-2023	0.42	16:00	11-01-2023	29.98	
	11	Narhat - Nawadah ckt-02	84.21	11:00	03-01-2023	-0.86	15:00	11-01-2023	28.20	
	12	Haveli Kharagpur - Sultanganj ckt-01	28.5	18:00	12-01-2023	13.2	15:00	14-01-2023	2.13	
	13	Haveli Kharagpur - Sultanganj ckt-02	28.4	18:00	12-01-2023	13.2	15:00	14-01-2023	2.13	
	14	Haveli Kharagpur - Lakhisarai ckt-01	24.8	15:00	11-01-2023	20.2	14:00	11-01-2023	0.08	
	15	Haveli Kharagpur - Lakhisarai ckt-02	24.7	15:00	11-01-2023	20.2	14:00	11-01-2023	0.09	
	16	Haveli Kharagpur - Jamalpur ckt-01	27.20	10:00	11-01-2023	8.5	15:00	29-01-2023	16.62	
	17	Haveli Kharagpur - Jamalpur ckt-02	27.20	09:00	11-01-2023	8.4	15:00	29-01-2023	16.60	
	18	Sekhopur Sarai - Sekhpura ckt-01	21.80	08:00	18-01-2023	3.2	23:00	11-01-2023	19.40	
	19	Sekhopur Sarai - Sekhpura ckt-02	21.90	08:00	18-01-2023	4.6	01:00	02-01-2023	19.46	
	20	Sekhopur Sarai - Biharsarif	0	00:00	00-00-0000	0	00:00	00-00-0000	0.00	System connected but no power flow
	21	Goradih - Sultanganj ckt-01	0.00	00:00	01-01-2023	0.00	00:00	01-01-2023	0.01	
	22	Goradih - Sultanganj ckt-02	0.00	00:00	01-01-2023	0.00	00:00	01-01-2023	0.01	
	23	Goradih - Kahalgaon ckt-01	34.00	10:00	12-01-2023	0.00	00:00	01-01-2023	0.37	
	24	Goradih - Kahalgaon ckt-02	33.60	10:00	12-01-2023	0.00	00:00	01-01-2023	0.36	
	25	Goradih - Sabour ckt-01	-13.20	17:00	19-01-2023	0.20	11:00	06-01-2023	-8.60	
	26	Goradih - Sabour ckt-02	-13.30	17:00	19-01-2023	0.10	11:00	13-01-2023	-8.64	
	27	Mokama-Hatidah ckt-01	35.20	09:00	11-01-2023	0.00	02:00	25-01-2023	19.05	
	28	Mokama-Hatidah ckt-02	35.60	09:00	11-01-2023	0.00	02:00	25-01-2023	19.22	
	29	Dumraon new (BGCL)-Dumraon (BSPTCL) ckt-01	52.28	09:00	14-01-2023	-0.29	14:00	16-01-2023	-40.76	
	30	Dumraon new (BGCL)-Dumraon (BSPTCL) ckt-02	50.00	09:00	15-01-2023	-0.30	14:00	16-01-2023	-39.01	

31	Dumraon-Buxar ckt-01	28.74	08:00	11-01-2023	2.22	04:00	21-01-2023	-20.03			
32	Dumraon-Buxar ckt-02	28.66	08:00	11-01-2023	2.20	04:00	21-01-2023	-19.99			
33	Dumraon-Ara ckt-01	-36.59	17:00	14-01-2023	0.02	04:00	21-01-2023	28.35			
34	Dumraon-Ara ckt-02	-23.79	18:00	07-01-2023	0.01	00:00	14-01-2023	18.43			
35	Dumraon-Jagdishpur ckt-01	-21.22	08:00	04-01-2023	0.01	04:00	07-01-2023	16.44			
36	Dumraon-Jagdishpur ckt-02	-21.19	08:00	04-01-2023	0.01	01:00	07-01-2023	16.42			
37	Naubatpur - Masaurhi ckt - 01	16.2	10:00	12-01-2023	2.87	06:00	02-01-2023	8.92			
38	Naubatpur - Masaurhi ckt - 02	16.11	10:00	12-01-2023	2.84	06:00	02-01-2023	8.73			
39	Jakkanpur-Sipara-03	28.91	10:00	28-01-2023	2.02	04:00	26-01-2023	18.32			
40	Jakkanpur-Fathua	48.5	18:00	25-01-2023	19.9	02:00	02-01-2023	41.46			
Substation Details	S.No.	MVA Capacity	Load						Avg of Month	Remark	
			MW								
			Max	Time	Date	Min	Time	Date			
D. Power Flow in transformers											
Amnour GIS	1	Tr-01-160 MVA, 220-132 kV	138.17	18:00	07-01-2023	42.02	14:00	17-01-2023	84.98		
	2	Tr-02-160 MVA, 220-132 kV	139.84	18:00	07-01-2023	42.55	14:00	17-01-2023	86.29		
	3	Tr-01-50 MVA, 132-33 kV	20.50	09:00	08-01-2023	0.27	14:00	16-01-2023	12.41		
	4	Tr-02-50 MVA, 132-33 kV	20.61	09:00	08-01-2023	0.27	14:00	16-01-2023	12.48		
KhijrSarai GIS	1	Tr-01-160 MVA, 220-132 kV	98.76	17:00	07-01-2023	23.67	23:00	09-01-2023	60.63		
	2	Tr-02-160 MVA, 220-132 kV	101.92	17:00	07-01-2023	24.97	23:00	09-01-2023	62.75		
	3	Tr-01-50 MVA, 132-33 kV	Not Commissioned								
	4	Tr-02-50 MVA, 132-33 kV	14.14	10:00	16-01-2023	0.05	09:00	13-01-2023	4.36		
	5	Tr-03-50 MVA, 132-33 kV	11.31	18:00	03-01-2023	0.1	17:00	19-01-2023	7.32		
Narhat GIS	1	Tr-01-160 MVA, 220-132 kV	97.36	11:00	03-01-2023	3.49	12:00	11-01-2023	18.74		
	2	Tr-02-160 MVA, 220-132 kV	94.35	11:00	04-01-2023	0.53	12:00	11-01-2023	17.21		
	3	Tr-01-50 MVA, 132-33 kV	8.34	10:00	06-01-2023	0.10	09:00	10-01-2023	4.52		
	4	Tr-02-50 MVA, 132-33 kV	15.64	09:00	14-01-2023	0.05	02:00	04-01-2023	9.27		
Sekhopur Sarai GIS	1	Tr-01-160 MVA, 220-132 kV	30.00	08:00	18-01-2023	4.40	09:00	03-01-2023	27.51		
	2	Tr-02-160 MVA, 220-132 kV	30.00	08:00	18-01-2023	4.10	09:00	03-01-2023	27.46		
	3	Tr-01-50 MVA, 132-33 kV	1.10	09:00	03-01-2023	0.20	20:00	01-01-2023	0.98		
	4	Tr-02-50 MVA, 132-33 kV	18.90	19:00	10-01-2023	0.10	01:00	18-01-2023	16.75		
Haveli Kharagpur GIS	1	Tr-01-160 MVA, 220-132 kV	63.50	15:00	11-01-2023	1.40	14:00	06-01-2023	23.15		
	2	Tr-02-160 MVA, 220-132 kV	61.30	15:00	11-01-2023	1.10	14:00	06-01-2023	21.80		
	3	Tr-01-50 MVA, 132-33 kV	6.20	09:00	01-01-2023	1.70	18:00	10-01-2023	4.28		
	4	Tr-02-50 MVA, 132-33 kV	4.70	18:00	17-01-2023	1.10	04:00	09-01-2023	2.99		
Goradih GIS	1	Tr-01-160 MVA, 220-132 kV	67.90	10:00	12-01-2023	0.00	00:00	01-01-2023	0.55		
	2	Tr-02-160 MVA, 220-132 kV	Not Commissioned								
	3	Tr-01-50 MVA, 132-33 kV	12.60	17:00	19-01-2023	0.00	21:00	04-01-2023	7.52		
	4	Tr-02-50 MVA, 132-33 kV	14.80	07:00	11-01-2023	0.00	08:00	06-01-2023	9.50		
Mokama GIS	1	Tr-02-160 MVA, 220-132 kV	72.10	08:00	24-01-2023	0.00	12:00	23-01-2023	42.75		
	2	Tr-01-50 MVA, 132-33 kV	Not Commissioned								
	3	Tr-02-80 MVA, 132-33 kV	9.90	10:00	10-01-2023	0.00	01:00	01-01-2023	2.08		
Dumraon GIS	1	Tr-01-160 MVA, 220-132 kV	125.39	08:00	04-01-2023	33.11	15:00	23-01-2023	-63.97		
	2	Tr-01-160 MVA, 220-132 kV	Not Commissioned								
	3	Tr-01-80 MVA, 132-33 kV	22.78	10:00	08-01-2023	0.17	19:00	10-01-2023	-17.47		
	4	Tr-02-80 MVA, 132-33 kV	0.04	00:00	03-01-2023	0.03	07:00	03-01-2023	0.00		
Naubatpur GIS	1	Tr-01-500 MVA, 400-220 kV	Not Commissioned								
	2	Tr-02-500 MVA, 400-220 kV	261.6	09:00	06-01-2023	65.69	04:00	21-01-2023	-149.80		
	3	Tr-01-160 MVA, 220-132 kV	35.52	10:00	12-01-2023	0.23	15:00	27-01-2023	-19.77		
	4	Tr-02-160 MVA, 220-132 kV	Not Commissioned								
	5	Tr-01-80 MVA, 132-33 kV	3.43	08:00	21-01-2023	0.03	08:00	01-01-2023	-0.68		
	6	Tr-02-80 MVA, 132-33 kV	3.52	09:00	06-01-2023	0.03	18:00	21-01-2023	-1.27		
Jakkanpur GIS	1	Tr-01-500 MVA, 400-220 kV	131.67	10:00	13-01-2023	39.15	02:00	05-01-2023	108.27		
	2	Tr-02-500 MVA, 400-220 kV	131.35	10:00	13-01-2023	39.15	02:00	05-01-2023	108.15		
	3	Tr-01-160 MVA, 220-132 kV	68.31	10:00	07-01-2023	20.9	15:00	28-01-2023	56.27		
	4	Tr-02-160 MVA, 220-132 kV	Not Commissioned								
	5	Tr-01-80 MVA, 132-33 kV	Not Commissioned								
	6	Tr-02-80 MVA, 132-33 kV	Not Commissioned								
	7	Tr-03-80 MVA, 132-33 kV	Not Commissioned								
	8	Tr-04-80 MVA, 132-33 kV	0.09	00:00	01-01-2023	0.05	08:00	04-01-2023	0.08		
Bhusaula GIS	1	Tr-01 100 MVA, 220-33kV	10.11	09:00	06-01-2023	0	15:00	08-01-2023	-5.85		
	1	Tr-02 100 MVA, 220-33kV	Not Commissioned								
Note	Negative sign(-) denote import of power and positive sign (+) denote export of power.										