

**BIHAR GRID COMPANY LIMITED**  
Loading level of Transmission Assets

Voltage Grade	S.No	Name of TL	Load							Month:	June'2023	Remark
			MW		Time		Date		Avg of Month			
			Max	Time	Date	Min	Time	Date				
<b>A. Power Flow in 400kV transmission line</b>												
400 kV (08 nos.)	1	Naubatpur - Patna(PG) ckt - 01	-539.38	05:00	22-06-2023	12.84	11:00	25-06-2023	-311.20			
	2	Naubatpur - Patna(PG) ckt - 02	-541.88	05:00	22-06-2023	3.86	11:00	25-06-2023	-312.59			
	3	Naubatpur - Balia(PG) ckt - 01	414.59	05:00	22-06-2023	-2.89	12:00	01-06-2023	159.13			
	4	Naubatpur - Balia(PG) ckt - 02	418.20	05:00	22-06-2023	-0.22	12:00	01-06-2023	175.45			
	5	Jakkanpur - Nabinagar(NPGC) ckt - 01	-564.77	14:00	08-06-2023	-1.27	03:00	30-06-2023	494.73			
	6	Jakkanpur - Nabinagar(NPGC) ckt - 02	-562.30	14:00	08-06-2023	-96.96	09:00	30-06-2023	486.40			
	7	Jakkanpur - Patna(PG) ckt - 01	453.65	11:00	01-06-2023	16.35	15:00	16-06-2023	378.45			
	8	Jakkanpur - Patna(PG) ckt - 02	448.65	11:00	01-06-2023	16.08	15:00	16-06-2023	375.48			
<b>B. Power Flow in 220kV transmission line</b>												
220 kV (36 nos.)	1	Hajipur - Amnour ckt-01	-141.3	13:00	20-06-2023	-12.04	12:00	14-06-2023	-96.20			
	2	Hajipur - Amnour ckt-02	-145.97	14:00	30-06-2023	-11.4	05:00	30-06-2023	-93.41			
	3	Patna (PG) - Khagaul ckt-02	-58.71	22:00	30-06-2023	-0.62	07:00	25-06-2023	-36.94			
	4	Patna (PG) - Khagaul ckt-03	-58.32	22:00	30-06-2023	-0.72	07:00	25-06-2023	-36.78			
	5	Khajirsarai - Biharsharif ckt-01	-124.39	07:00	21-06-2023	0.25	22:00	03-06-2023	-44.09			
	6	Khajirsarai - Biharsharif ckt-02	-125.02	08:00	16-06-2023	-0.04	22:00	03-06-2023	-44.54			
	7	Khajirsarai - Bodh Gaya ckt-01	-83.94	14:00	08-06-2023	-0.37	06:00	30-06-2023	-45.90			
	8	Khajirsarai - Bodh Gaya ckt-02	-83.6	11:00	08-06-2023	-1.87	07:00	20-06-2023	-42.26			
	9	Khajirsarai - Gaya (PG) ckt-01	-114.44	21:00	03-06-2023	-5.54	13:00	16-06-2023	-73.36			
	10	Khajirsarai - Gaya (PG) ckt-02	-114.75	21:00	03-06-2023	-5.5	13:00	16-06-2023	-73.43			
	11	Khajirsarai - Narhat ckt-01	176.83	07:00	19-06-2023	15.39	12:00	30-06-2023	77.46			
	12	Khajirsarai - Narhat ckt-02	114.26	20:00	06-06-2023	15.38	12:00	30-06-2023	76.35			
	13	Narhat - Sekhopur Sarai ckt-01	95.42	14:00	20-06-2023	5.85	12:00	30-06-2023	44.41			
	14	Narhat - Sekhopur Sarai ckt-02	95.11	14:00	20-06-2023	5.85	12:00	30-06-2023	44.38			
	15	Sekhopur Sarai - Haveli Kharagpur ckt-01	72.80	14:00	20-06-2023	0.1	15:00	16-06-2023	32.03			
	16	Sekhopur Sarai - Haveli Kharagpur ckt-02	72.40	14:00	20-06-2023	-0.3	14:00	16-06-2023	32.69			
	17	Haveli Kharagpur - Goradhi ckt-01	0.00	00:00	01-06-2023	0.00	00:00	30-06-2023	0.01	System connected but no power flow		
	18	Haveli Kharagpur - Goradhi ckt-02	0.00	00:00	01-06-2023	0.00	00:00	30-06-2023	0.01			
	19	Mokama-Biharsharif ckt-1	-134.7	00:00	24-06-2023	0.00	05:00	01-06-2023	-20.96			
	20	Mokama-Biharsharif ckt-2	-152	02:00	27-06-2023	0.00	05:00	01-06-2023	-21.87			
	21	Mokama-BTPS ckt-1	-135	07:00	30-06-2023	0.00	06:00	01-06-2023	7.16			
	22	Mokama-BTPS ckt-2	-135.1	07:00	30-06-2023	0.00	06:00	01-06-2023	7.00			
	23	Ara(PG)-Dumraon New - 01	-51.04	06:00	21-06-2023	0.04	12:00	14-06-2023	40.86			
	24	Ara(PG)-Dumraon New - 02	-50.72	06:00	21-06-2023	0.03	11:00	14-06-2023	40.60			
	25	Dumraon New-Nadokhar - 01	-81.46	14:00	24-06-2023	-0.64	02:00	29-06-2023	64.66			
	26	Dumraon New-Nadokhar - 02	-82.06	14:00	24-06-2023	0.37	15:00	30-06-2023	65.94			
	27	Naubatpur - Ara(PG) Ckt-01	208.39	08:00	24-06-2023	28	12:00	30-06-2023	91.15			
	28	Naubatpur - Ara(PG) Ckt-02	186.04	20:00	07-06-2023	28.11	12:00	30-06-2023	92.94			
	29	Naubatpur - Khagaul Ckt-01	37.67	14:00	13-06-2023	0.03	02:00	22-06-2023	7.57			
	30	Naubatpur - Khagaul Ckt-02	37.87	14:00	13-06-2023	-0.07	01:00	23-06-2023	7.75			
	31	Naubatpur - Bhusaula Ckt-01	14.58	23:00	23-06-2023	0.17	03:00	10-06-2023	9.91			
	32	Naubatpur - Bhusaula Ckt-02	14.34	23:00	23-06-2023	-0.08	04:00	10-06-2023	9.65			
	33	Naubatpur - Bihta Ckt-01	61.50	08:00	25-06-2023	0.03	18:00	09-06-2023	13.20			
	34	Naubatpur - Bihta Ckt-02	60.81	08:00	25-06-2023	0.03	18:00	09-06-2023	13.11			
	35	Jakkanpur - Sipara ckt-03	80.52	22:00	30-06-2023	25.62	05:00	30-06-2023	61.33			
	36	Jakkanpur - Khagaul ckt	162.71	23:00	04-06-2023	56.95	05:00	30-06-2023	138.41			
<b>C. Power Flow in 132 kV transmission line</b>												
132 kV (40 nos.)	1	Amnour - Siwan ckt-01	74.12	21:00	29-06-2023	0.01	13:00	14-06-2023	42.10			
	2	Amnour - Siwan ckt-02	74.68	21:00	29-06-2023	0.08	06:00	30-06-2023	42.80			
	3	Amnour - Chhapara ckt-01	66.58	14:00	20-06-2023	2.99	15:00	04-06-2023	35.17			
	4	Amnour - Chhapara ckt-02	65.26	14:00	20-06-2023	3.06	15:00	04-06-2023	34.98			
	5	Khajirsarai - Bodh Gaya ckt -03	0.09	11:00	29-06-2023	0.01	00:00	01-06-2023	0.00			
	6	Khajirsarai - Wajirganj ckt -01	54.23	19:00	08-06-2023	0.03	13:00	21-06-2023	34.97			
	7	Khajirsarai-Hulesganj ckt-01	74.36	11:00	11-06-2023	0.10	06:00	12-06-2023	25.18			
	8	Khajirsarai - Jehanabad ckt-01	69.76	07:00	18-06-2023	2.00	22:00	19-06-2023	47.30			
	9	Khajirsarai - Jehanabad ckt-02	69.67	07:00	18-06-2023	1.99	22:00	19-06-2023	47.28			
	10	Narhat - Nawadah ckt-01	54.38	18:00	10-06-2023	0.39	11:00	30-06-2023	22.27			
	11	Narhat - Nawadah ckt-02	54.34	18:00	10-06-2023	0.38	11:00	30-06-2023	22.21			
	12	Haveli Kharagpur - Sultanganj ckt-01	0.00	00:00	01-06-2023	0.00	00:00	30-06-2023	0.01	System connected but no power flow		
	13	Haveli Kharagpur - Sultanganj ckt-02	0.00	00:00	01-06-2023	0.00	00:00	30-06-2023	0.01			
	14	Haveli Kharagpur - Lakhisarai ckt-01	38.90	14:00	20-06-2023	3.90	11:00	20-06-2023	0.18			
	15	Haveli Kharagpur - Lakhisarai ckt-02	38.90	14:00	20-06-2023	3.60	11:00	20-06-2023	0.18			
	16	Haveli Kharagpur - Jamalpur ckt-01	69.00	23:00	24-06-2023	17.4	13:00	03-06-2023	26.83			
	17	Haveli Kharagpur - Jamalpur ckt-02	35.60	11:00	08-06-2023	17.3	13:00	03-06-2023	8.05			
	18	Sekhopur Sarai - Sekhpura ckt-01	41.20	19:00	12-06-2023	2.5	13:00	29-06-2023	21.99			
	19	Sekhopur Sarai - Sekhpura ckt-02	35.60	10:00	14-06-2023	2.6	13:00	29-06-2023	21.10			
	20	Sekhopur Sarai - Biharsharif	-23.7	08:00	02-06-2023	-3.6	14:00	02-06-2023	-4.22			
	21	Goradhi - Sultanganj ckt-01	-7.90	21:00	30-06-2023	0.00	00:00	01-06-2023	-0.05			
	22	Goradhi - Sultanganj ckt-02	-7.60	21:00	30-06-2023	0.00	00:00	01-06-2023	-0.05			
	23	Goradhi - Kahalgauj ckt-01	0.00	00:00	01-06-2023	0.00	00:00	01-06-2023	0.01	System connected but no power flow		
	24	Goradhi - Kahalgauj ckt-02	0.00	00:00	01-06-2023	0.00	00:00	01-06-2023	0.01			
	25	Goradhi - Sabour ckt-01	-18.80	20:00	08-06-2023	0.00	20:00	13-06-2023	-11.41			
	26	Goradhi - Sabour ckt-02	-18.90	20:00	08-06-2023	0.00	20:00	13-06-2023	-11.43			
	27	Mokama-Hatidah ckt-01	32.30	07:00	13-06-2023	0.00	15:00	01-06-2023	9.41			
	28	Mokama-Hatidah ckt-02	32.70	07:00	13-06-2023	0.00	15:00	01-06-2023	9.52			
	29	Dumraon new (BGCL)-Dumraon (BSPTCL) ckt-01	57.54	17:00	17-06-2023	0.01	19:00	20-06-2023	-46.02			
	30	Dumraon new (BGCL)-Dumraon (BSPTCL) ckt-02	77.08	18:00	19-06-2023	0.45	12:00	30-06-2023	-61.30			
	31	Dumraon-Buxar ckt-01	30.18	19:00	18-06-2023	0.01	09:00	21-06-2023	-24.14			
	32	Dumraon-Buxar ckt-02	30.14	19:00	18-06-2023	0.01	09:00	21-06-2023	-24.10			
	33	Dumraon-Ara ckt-01	-23.86	09:00	17-06-2023	-0.13	14:00	16-06-2023	18.99			
	34	Dumraon-Ara ckt-02	-23.91	09:00	17-06-2023	-0.17	14:00	16-06-2023	18.99			
	35	Dumraon-Jegdishpur ckt-01	22.69	10:00	17-06-2023	-0.01	01:00	01-06-2023	-18.16			
	36	Dumraon-Jegdishpur ckt-02	22.60	10:00	17-06-2023	-0.02	01:00	01-06-2023	-18.10			
	37	Naubatpur - Masaurhi ckt - 01	26.89	14:00	23-06-2023	6.58	14:00	15-06-2023	20.28			
	38	Naubatpur - Masaurhi ckt - 02	26.81	14:00	23-06-2023	6.55	14:00	15-06-2023	20.03			
	39	Jakkanpur-Sipera-03	33.04	15:00	06-06-2023	3.63	04:00	30-06-2023	27.97			
	40	Jakkanpur-Fathua	48.86	13:00	20-06-2023	18.43	23:00	11-06-2023	43.25			

BIHAR GRID COMPANY LIMITED											
Loading level of Transmission Assets											
										Month:	June'2023
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	139.84	13:00	20-06-2023	5.74	05:00	30-06-2023	95.71		
	2	Tr-02-160 MVA, 220-132 kV	141.57	13:00	20-06-2023	5.80	05:00	30-06-2023	97.63		
	3	Tr-01-50 MVA, 132-33 kV	29.11	15:00	13-06-2023	0.07	13:00	15-06-2023	19.30		
	4	Tr-02-50 MVA, 132-33 kV	29.30	20:00	13-06-2023	0.07	13:00	15-06-2023	19.41		
KhijirSarai GIS	1	Tr-01-160 MVA, 220-132 kV	117.93	20:00	17-06-2023	20.98	14:00	15-06-2023	83.46		
	2	Tr-02-160 MVA, 220-132 kV	121.31	20:00	17-06-2023	22.14	14:00	15-06-2023	86.17		
	3	Tr-01-50 MVA, 132-33 kV			Not Commissioned						
	4	Tr-02-50 MVA, 132-33 kV	18.08	08:00	15-06-2023	0.03	19:00	20-06-2023	6.52		
	5	Tr-03-50 MVA, 132-33 kV	13.68	08:00	05-06-2023	0.08	07:00	04-06-2023	8.33		
Narhat GIS	1	Tr-01-160 MVA, 220-132 kV	68.19	19:00	10-06-2023	8.56	11:00	30-06-2023	32.52		
	2	Tr-02-160 MVA, 220-132 kV	65.64	19:00	10-06-2023	7.50	11:00	30-06-2023	31.17		
	3	Tr-01-50 MVA, 132-33 kV	9.66	20:00	13-06-2023	0.09	00:00	21-06-2023	6.61		
	4	Tr-02-50 MVA, 132-33 kV	18.64	20:00	13-06-2023	0.10	17:00	27-06-2023	12.58		
Sekhopur Sarai GIS	1	Tr-01-160 MVA, 220-132 kV	35.20	06:00	18-06-2023	1.80	12:00	29-06-2023	28.01		
	2	Tr-02-160 MVA, 220-132 kV	59.20	11:00	18-06-2023	1.30	13:00	15-06-2023	34.25		
	3	Tr-01-50 MVA, 132-33 kV	16.50	20:00	26-06-2023	0.30	03:00	29-06-2023	2.17		
	4	Tr-02-50 MVA, 132-33 kV	20.30	06:00	18-06-2023	0.80	13:00	14-06-2023	16.90		
Haveli Kharagpur GIS	1	Tr-01-160 MVA, 220-132 kV	72.60	14:00	20-06-2023	0.90	14:00	27-06-2023	24.09		
	2	Tr-02-160 MVA, 220-132 kV	69.80	14:00	20-06-2023	0.30	14:00	16-06-2023	22.60		
	3	Tr-01-50 MVA, 132-33 kV	14.20	00:00	02-06-2023	1.60	17:00	30-06-2023	7.09		
	4	Tr-02-50 MVA, 132-33 kV	6.50	21:00	09-06-2023	0.20	13:00	27-06-2023	4.33		
Goradih GIS	1	Tr-01-160 MVA, 220-132 kV	0.00	00:00	01-06-2023	0.00	00:00	01-06-2023	0.04		
	2	Tr-02-160 MVA, 220-132 kV			Not Commissioned						
	3	Tr-01-50 MVA, 132-33 kV	17.80	07:00	09-06-2023	0.00	02:00	12-06-2023	10.80		
	4	Tr-02-50 MVA, 132-33 kV	20.90	20:00	08-06-2022	0.00	17:00	11-06-2023	12.11		
Mokama GIS	1	Tr-02-160 MVA, 220-132 kV	74.40	07:00	13-06-2023	0.00	00:00	11-06-2023	28.01		
	2	Tr-01-50 MVA, 132-33 kV			Not Commissioned						
	3	Tr-02-80 MVA, 132-33 kV	12.20	20:00	04-06-2023	0.00	13:00	01-06-2023	2.61		
Dumraon GIS	1	Tr-01-160 MVA, 220-132 kV	143.63	21:00	17-06-2023	16.81	04:00	30-06-2023	-101.46		
	2	Tr-01-160 MVA, 220-132 kV			Not Commissioned						
	3	Tr-01-80 MVA, 132-33 kV	23.37	20:00	13-06-2023	0.03	19:00	16-06-2023	-18.67		
	4	Tr-02-80 MVA, 132-33 kV	23.19	07:00	18-06-2023	0.03	03:00	01-06-2023	-18.53		
Naubatpur GIS	1	Tr-01-500 MVA, 400-220 kV	209.89	20:00	07-06-2023	59.8	05:00	30-06-2023	144.56		
	2	Tr-02-500 MVA, 400-220 kV	211.32	16:00	09-06-2023	59.58	05:00	30-06-2023	143.78		
	3	Tr-01-160 MVA, 220-132 kV	56.29	19:00	17-06-2023	0.18	18:00	06-06-2023	43.72		
	4	Tr-02-160 MVA, 220-132 kV			Not Commissioned						
Jakkanpur GIS	5	Tr-01-80 MVA, 132-33 kV	7.74	08:00	25-06-2023	0.07	07:00	07-06-2023	3.26		
	6	Tr-02-80 MVA, 132-33 kV	0.04	03:00	01-06-2023	0.03	00:00	01-06-2023	0.01		
	1	Tr-01-500 MVA, 400-220 kV	139.49	20:00	07-06-2023	57.63	05:00	30-06-2023	126.12		
	2	Tr-02-500 MVA, 400-220 kV	139.38	20:00	07-06-2023	57.4	05:00	30-06-2023	125.92		
	3	Tr-01-160 MVA, 220-132 kV	71.92	15:00	06-06-2023	32.75	05:00	30-06-2023	66.54		
	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	0.12	13:00	14-06-2023	0.03	12:00	20-06-2023	0.10		
Bhusaula GIS	7	Tr-03-80 MVA, 132-33 kV	0.04	05:00	02-06-2023	0.03	00:00	01-06-2023	0.03		
	8	Tr-04-80 MVA, 132-33 kV	0.06	07:00	01-06-2023	0.03	11:00	01-06-2023	0.05		
	1	Tr-01 100 MVA, 220-33kV	4.66	10:00	26-06-2023	0.04	00:00	01-06-2023	0.75		
	2	Tr-02 100 MVA, 220-33kV	29.43	22:00	18-06-2023	0	18:00	06-06-2023	18.47		
Note	Negative sign[-] denote import of power and positive sign[+] denote export of power. For example [-] 145.97 MW in Hajipur - Amnour ckt-2 denotes import of 145.97 MW from Hajipur S-S to Amnour S-S and 74.68 MW in Amnour -Siwan ckt-2 denotes 74.68 MW from Amnour to Siwan S-S.										