

BIHAR GRID COMPANY LIMITED											
Loading level of Transmission Assets											
Voltage Grade	S.No	Name of TL	Load							Month:	September 2022
			MW							Avg of Month	Remark
			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	-503.43	06:00	09-09-2022	-62.03	13:00	25-09-2022	-327.57		
	2	Naubatpur - Patna(PG) ckt - 02	-802.28	17:00	10-09-2022	-61.97	13:00	25-09-2022	-333.08		
	3	Naubatpur - Ballia(PG) ckt - 01	396.46	17:00	03-09-2022	4.01	03:00	24-09-2022	228.00		
	4	Naubatpur - Ballia(PG) ckt - 02	399.62	17:00	03-09-2022	-5.52	15:00	24-09-2022	231.53		
	5	Jakkanpur - Nabinagar(NPGC) ckt - 01	-523.82	00:00	01-09-2022	-24.37	08:00	26-09-2022	-394.17		
	6	Jakkanpur - Nabinagar(NPGC) ckt - 02	-525.57	00:00	01-09-2022	-25.26	08:00	26-09-2022	-394.64		
	7	Jakkanpur - Patna(PG) ckt - 01	494.22	00:00	01-09-2022	-2.82	08:00	27-09-2022	362.89		
	8	Jakkanpur - Patna(PG) ckt - 02	490.36	00:00	01-09-2022	-2.18	08:00	27-09-2022	359.91		
<b>B. Power Flow in 220kV transmission line</b>											
220 kV (34 nos.)	1	Hajipur - Amnour ckt-01	-138.96	14:00	26-09-2022	-32.55	16:00	15-09-2022	81.57		
	2	Hajipur - Amnour ckt-02	-174.03	12:00	11-09-2022	-32.48	16:00	15-09-2022	88.73		
	3	Patna (PG) - Khagaul ckt-02	90.45	18:00	19-09-2022	23.68	09:00	24-09-2022	59.23		
	4	Patna (PG) - Khagaul ckt-03	89.8	18:00	19-09-2022	23.72	09:00	24-09-2022	59.04533333		
	5	Khijirsarai - Biharsharif ckt-01	-163.63	08:00	27-09-2022	-30.09	19:00	17-09-2022	-94.11		
	6	Khijirsarai - Biharsharif ckt-02	-163.91	08:00	27-09-2022	-30.64	19:00	17-09-2022	-94.39		
	7	Khijirsarai - Bodh Gaya ckt-01	-59.23	18:00	01-09-2022	-0.01	07:00	17-09-2022	-25.94		
	8	Khijirsarai - Bodh Gaya ckt-02	-59.52	18:00	01-09-2022	-0.07	07:00	17-09-2022	-26.04		
	9	Khijirsarai - Gaya (PG) ckt-01	-90.69	23:00	09-09-2022	-3.62	16:00	26-09-2022	97.44		
	10	Khijirsarai - Gaya (PG) ckt-02	-90.99	21:00	05-09-2022	-3.7	16:00	26-09-2022	97.38		
	11	Khijirsarai - Narhat ckt-01	140.65	20:00	23-09-2022	41.8	15:00	19-09-2022	-55.09		
	12	Khijirsarai - Narhat ckt-02	140.27	20:00	23-09-2022	41.74	15:00	19-09-2022	-55.36		
	13	Narhat - Sekhopur Sarai ckt-01	83.40	23:00	17-09-2022	24.89	12:00	10-09-2022	26.67		
	14	Narhat - Sekhopur Sarai ckt-02	83.10	23:00	17-09-2022	24.89	12:00	10-09-2022	26.66		
	15	Sekhopur Sarai - Haveli Kharagpur ckt-01	55.50	11:00	22-09-2022	3.70	12:00	10-09-2022	33.29		
	16	Sekhopur Sarai - Haveli Kharagpur ckt-02	53.20	14:00	21-09-2022	2.70	12:00	10-09-2022	32.38		
	17	Haveli Kharagpur - Goradih ckt-01	0.00	00:00	00-00-0000	0.00	00:00	00-00-0000	0.00	System connected but no power flow	
	18	Haveli Kharagpur - Goradih ckt-02	0.00	00:00	00-00-0000	0.00	00:00	00-00-0000	0.00		
	19	Mokama-Biharsharif ckt-1	135.30	07:00	15-09-2022	0.00	19:00	01-09-2022	31.10		
	20	Mokama-Biharsharif ckt-2	135.60	07:00	15-09-2022	0.00	19:00	01-09-2022	31.52		
	21	Mokama-BTPS ckt-1	-158.50	07:00	16-09-2022	0.00	22:00	01-09-2022	-56.62		
	22	Mokama-BTPS ckt-2	-158.00	07:00	16-09-2022	0.00	22:00	01-09-2022	-56.58		
	23	Ara(PG)-Dumraon New - 01	-64.81	08:00	08-09-2022	-0.26	03:00	01-09-2022	-19.52		
	24	Ara(PG)-Dumraon New - 02	-64.88	08:00	08-09-2022	-0.18	03:00	01-09-2022	-19.47		
	25	Dumraon New-Nadokhar - 01	-71.26	00:00	01-09-2022	0.07	22:00	17-09-2022	-20.90		
	26	Dumraon New-Nadokhar - 02	-71.61	00:00	01-09-2022	0.01	22:00	17-09-2022	-21.03		
	27	Naubatpur- Ara(PG) Ckt-01	138.75	06:00	06-09-2022	34.51	16:00	15-09-2022	95.71		
	28	Naubatpur- Ara(PG) Ckt-02	138.85	06:00	06-09-2022	34.61	16:00	15-09-2022	95.72		
	29	Naubatpur- Khagaul Ckt-01	53.17	08:00	24-09-2022	0.01	13:00	01-09-2022	7.35		
	30	Naubatpur- Khagaul Ckt-02	53.43	08:00	24-09-2022	0.02	13:00	01-09-2022	7.41		
	31	Naubatpur- Bhusaula Ckt-01	0.27	12:00	06-09-2022	0.00	02:00	18-09-2022	0.07		
	32	Naubatpur- Bhusaula Ckt-02	0.48	02:00	17-09-2022	0.00	11:00	06-09-2022	0.01		
	33	Naubatpur- Bihta Ckt-01	34.25	09:00	24-09-2022	0.02	07:00	26-09-2022	2.80		
	34	Naubatpur- Bihta Ckt-02	34.34	09:00	24-09-2022	-0.01	22:00	01-09-2022	2.80		
<b>C. Power Flow in 132 kV transmission line</b>											
132 kV (33 nos.)	1	Amnour - Siwan ckt-01	65.08	23:00	10-09-2022	5.37	14:00	09-09-2022	35.56		
	2	Amnour - Siwan ckt-02	65.4	23:00	10-09-2022	5.38	14:00	09-09-2022	35.69		
	3	Amnour - Chhapara ckt-01	59.87	02:00	23-09-2022	5.69	22:00	15-09-2022	34.11		
	4	Amnour - Chhapara ckt-02	60.22	02:00	23-09-2022	5.68	22:00	15-09-2022	34.02		
	5	Khijirsarai - Bodh Gaya ckt-03	18.42	14:00	03-09-2022	0.01	02:00	01-09-2022	0.03		
	6	Khijirsarai - Wajirganj ckt-01	49.35	10:00	06-09-2022	0.06	17:00	14-09-2022	19.13		
	7	Khijirsarai - Hulasganj ckt-01	56.36	13:00	23-09-2022	0.05	09:00	16-09-2022	25.48		
	8	Khijirsarai - Jehanabad ckt-01	73.65	21:00	05-09-2022	2.82	18:00	21-09-2022	46.81		
	9	Khijirsarai - Jehanabad ckt-02	101.9	20:00	22-09-2022	2.81	18:00	21-09-2022	47.03		
	10	Narhat - Nawadah ckt-01	59.12	19:00	22-09-2022	1.38	17:00	13-09-2022	35.43		
	11	Narhat - Nawadah ckt-02	64.50	18:00	28-09-2022	1.09	17:00	13-09-2022	33.47		
	12	Haveli Kharagpur - Sultanganj ckt-01	15.10	16:00	30-09-2022	14.50	15:00	30-09-2022	0.05		
	13	Haveli Kharagpur - Sultanganj ckt-02	0.00	00:00	00-00-0000	0.00	00:00	00-00-0000	0.00	System connected but no power flow	
	14	Haveli Kharagpur - Lakhisarai ckt-01	0.00	00:00	00-00-0000	0.00	00:00	00-00-0000	0.00		
	15	Haveli Kharagpur - Lakhisarai ckt-02	0.00	00:00	00-00-0000	0.00	00:00	00-00-0000	0.00		
	16	Haveli Kharagpur - Jamalpur ckt-01	30.30	19:00	07-09-2022	7.70	14:00	03-09-2022	21.48		
	17	Haveli Kharagpur - Jamalpur ckt-02	30.20	19:00	07-09-2022	7.60	14:00	03-09-2022	21.47		
	18	Sekhopur Sarai - Sekhpura ckt-01	47.30	23:00	17-09-2022	9.20	09:00	08-09-2022	24.98		
	19	Sekhopur Sarai - Sekhpura ckt-02	48.00	23:00	17-09-2022	1.20	01:00	01-09-2022	25.78		
	20	Sekhopur Sarai - Biharsarif	0.00	00:00	00-00-0000	0.00	00:00	00-00-0000	0.00		
	21	Goradih - Sultanganj ckt-01	0.00	00:00	00-00-0000	0.00	00:00	00-00-0000	0.00	System connected but no power flow	
	22	Goradih - Sultanganj ckt-02	0.00	00:00	00-00-0000	0.00	00:00	00-00-0000	0.00		
	23	Goradih - Kahalgauha ckt-01	0.00	00:00	00-00-0000	0.00	00:00	00-00-0000	0.00		
	24	Goradih - Kahalgauha ckt-02	0.00	00:00	00-00-0000	0.00	00:00	00-00-0000	0.00		
	25	Goradih - Sabour ckt-01	-17.20	09:00	03-09-2022	0.00	17:00	14-09-2022	-9.87		
	26	Goradih - Sabour ckt-02	-17.30	09:00	03-09-2022	0.00	17:00	14-09-2022	-9.91		
	27	Mokama-Hatidah ckt-01	55.70	10:00	10-09-2022	0.00	08:00	04-09-2022	23.76		
	28	Mokama-Hatidah ckt-02	56.40	10:00	10-09-2022	0.00	08:00	04-09-2022	23.98		
	29	DUMRAON-DUMRAON ckt-01	37.76	06:00	09-09-2022	0.48	17:00	19-09-2022	17.68		
	30	DUMRAON-DUMRAON Ckt 02	37.86	06:00	09-09-2022	0.26	17:00	19-09-2022	17.90		
	31	DUMRAON-BUXAR ckt-01	51.30	08:00	20-09-2022	0.01	17:00	14-09-2022	24.09		
	32	DUMRAON-BUXAR ckt-02	51.28	08:00	20-09-2022	0.01	23:00	20-09-2022	24.12		
	33	DUMRAON-ARA ckt-01	53.26	21:00	04-09-2022	0.01	00:00	19-09-2022	-6.96		
	34	DUMRAON-ARA ckt-02	53.48	21:00	04-09-2022	0.01	00:00	19-09-2022	-6.95		
	35	DUMRAON-JAGDISHPUR ckt-01	-32.77	19:00	03-09-2022	0.01	11:00	25-09-2022	-2.41		
	36	DUMRAON-JAGDISHPUR ckt-02	-32.74	19:00	03-09-2022	0.01	00:00	13-09-2022	-2.50		
	37	Naubatpur - Masaurhi ckt - 01	21.36	15:00	27-09-2022	3.9	14:00	10-09-2022	13.68		
	38	Naubatpur - Masaurhi ckt - 02	21.26	15:00	27-09-2022	3.87	14:00	10-09-2022	13.53		
	39	JAKKANPUR-SIPARA-03	39.74	19:00	10-09-2022	-2.45	15:00	26-09-2022	30.68		
	40	JAKKANPUR-FATUHA	48.28	19:00	16-09-2022	2.1	15:00	26-09-2022	43.08		

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Substation Details	S.No.	MVA Capacity	Load						Avg of Month	Remark
			MW							
			Max	Time	Date	Min	Time	Date		
<b>D. Power Flow in transformers</b>										
Amnour GIS	1	Tr-01-160 MVA, 220-132 kV	126.89	02:00	23-09-2022	32.36	16:00	15-09-2022	85.76	
	2	Tr-02-160 MVA, 220-132 kV	128.70	02:00	23-09-2022	32.62	16:00	15-09-2022	86.90	
	3	Tr-01-50 MVA, 132-33 kV	25.81	21:00	04-09-2022	0.07	13:00	02-09-2022	16.77	
	4	Tr-02-50 MVA, 132-33 kV	25.75	21:00	04-09-2022	0.12	16:00	03-03-2022	16.87	
KhijirSarai GIS	1	Tr-01-160 MVA, 220-132 kV	124.33	19:00	07-09-2022	-0.21	19:00	17-09-2022	76.38	
	2	Tr-02-160 MVA, 220-132 kV	149.65	05:00	17-09-2022	0.55	19:00	17-09-2022	79.60	
	3	Tr-01-50 MVA, 132-33 kV								Not Commissioned
	4	Tr-02-50 MVA, 132-33 kV	18.63	07:00	29-09-2022	0.03	15:00	19-09-2022	8.36	
	5	Tr-03-50 MVA, 132-33 kV	15.09	08:00	10-09-2022	0.09	18:00	02-09-2022	8.99	
Narhat GIS	1	Tr-01-160 MVA, 220-132 kV	71.05	20:00	22-09-2022	3.89	17:00	13-09-2022	22.27	
	2	Tr-02-160 MVA, 220-132 kV	66.72	20:00	22-09-2022	1.59	17:00	13-09-2022	20.79	
	3	Tr-01-50 MVA, 132-33 kV	9.77	20:00	05-09-2022	0.09	15:00	29-09-2022	6.15	
	4	Tr-02-50 MVA, 132-33 kV	20.48	19:00	10-09-2022	0.03	14:00	09-09-2022	11.07	
	1	Tr-01-160 MVA, 220-132 kV	61.90	13:00	24-09-2022	3.3	10:00	21-09-2022	35.00	
Sekhopur Sarai GIS	2	Tr-02-160 MVA, 220-132 kV	54.70	12:00	23-09-2022	4.4	15:00	19-09-2022	35.60	
	3	Tr-01-50 MVA, 132-33 kV	1.60	09:00	29-09-2022	0.20	21:00	13-09-2022	1.31	
	4	Tr-02-50 MVA, 132-33 kV	24.90	22:00	05-09-2022	1.2	12:00	06-09-2022	16.81	
	1	Tr-01-160 MVA, 220-132 kV	38.10	19:00	07-09-2022	10.3	14:00	03-09-2022	27.87	
Haveli Kharagpur GIS	2	Tr-02-160 MVA, 220-132 kV	36.00	19:00	07-09-2022	9.0	14:00	03-09-2022	26.44	
	3	Tr-01-50 MVA, 132-33 kV	10.50	22:00	09-09-2022	1.4	23:00	24-09-2022	6.83	
	4	Tr-02-50 MVA, 132-33 kV	7.30	21:00	24-09-2022	1.2	14:00	03-09-2022	4.45	
	1	Tr-01-160 MVA, 220-132 kV	0.00	00:00	00-00-0000	0.00	00:00	00-00-0000	0.00	
Goradih GIS	2	Tr-02-160 MVA, 220-132 kV								Not Commissioned
	3	Tr-01-50 MVA, 132-33 kV	16.10	04:00	02-09-2022	0.00	23:00	01-09-2022	10.74	
	4	Tr-02-50 MVA, 132-33 kV	21.50	13:00	02-09-2022	0.00	14:00	03-09-2022	8.97	
	1	Tr-01-160 MVA, 220-132 kV								Not Commissioned
Mokama GIS	2	Tr-02-160 MVA, 220-132 kV	111.40	10:00	10-09-2022	0.00	08:00	04-09-2022	50.21	
	3	Tr-01-80 MVA, 132-33 kV								Not Commissioned
	4	Tr-02-80 MVA, 132-33 kV	10.80	19:00	02-09-2022	0.00	09:00	01-09-2022	2.550	
	1	Tr-01-160 MVA, 220-132 kV	138.8	19:00	03-09-2022	13.58	16:00	15-09-2022	75.00	
Dumraon GIS	2	Tr-01-80 MVA, 132-33 kV	25.04	19:00	04-09-2022	2.32	16:00	29-09-2022	8.00	
	3	Tr-02-80 MVA, 132-33 kV	0.00	00:00	01-09-2022	0.00	00:00	31-09-2022		
	1	Tr-01-500 MVA, 400-220 kV								Not Commissioned
	2	Tr-02-500 MVA, 400-220 kV	286.79	19:00	22-09-2022	116.69	14:00	10-09-2022	212.00	
Naubatpur GIS	3	Tr-01-160 MVA, 220-132 kV	45.37	15:00	27-09-2022	9.04	14:00	10-09-2022	25.00	
	4	Tr-02-160 MVA, 220-132 kV								Not Commissioned
	5	Tr-01-80 MVA, 132-33 kV	6.29	08:00	26-09-2022	0.08	15:00	22-09-2022	2.00	
	6	Tr-02-80 MVA, 132-33 kV								Not Commissioned
	1	Tr-01-500 MVA, 400-220 kV	82.48	19:00	22-09-2022	45.95	14:00	11-09-2022	71.590	
	2	Tr-02-500 MVA, 400-220 kV								Not Commissioned
Jakkanpur GIS	3	Tr-01-160 MVA, 220-132 kV	82.09	19:00	22-09-2022	45.58	14:00	11-09-2022	71.440	
	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	0.13	12:00	30-09-2022	0.03	16:00	29-09-2022	0.090	
Bhusaula GIS	1	Tr-01 100 MVA, 220-33kV	0.50	12:00	9-1-2022	0.02	13:00	31-09-2022	0.10	
Note	Negative sign(-) denote import of power and positive sign (+) denote export of power .For example (-) 138.96 MW in Hajipur - Amnour ckt-1 denotes import of 138.96 MW from Hajipur S-5 to Amnour S-5 and 65.08 MW in Amnour -Siwan ckt-2 denotes 65.08 MW from Amnour to Siwan S-5.									

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