

BIHAR GRID COMPANY LIMITED											
Loading level of Transmission Assets											
Voltage Grade	S.No	Name of TL	Load							Month:	December'2022
			MW							Avg of Month	Remark
			Max	Time	Date	Min	Time	Date			
A. Power Flow in 400KV tranmission line											
400 kv (08 nos.)	1	Naubatpur - Patna(PG) ckt - 01	-445.27	20:00	16-12-2022	-92.26	03:00	14-12-2022	-282.40		
	2	Naubatpur - Patna(PG) ckt - 02	-446.38	20:00	16-12-2022	-92.75	03:00	14-12-2022	-286.27		
	3	Naubatpur - Balia(PG) ckt - 01	386.11	20:00	21-12-2022	17.85	17:00	20-12-2022	219.86		
	4	Naubatpur - Balia(PG) ckt - 02	436.66	19:00	06-12-2022	21.42	17:00	20-12-2022	239.93		
	5	Jakkanpur - Nabinagar(NPGC) ckt - 01	-377.77	20:00	19-12-2022	-19.27	07:00	25-12-2022	-274.21		
	6	Jakkanpur - Nabinagar(NPGC) ckt - 02	-380.09	20:00	19-12-2022	-19.34	07:00	25-12-2022	-266.73		
	7	Jakkanpur - Patna(PG) ckt - 01	292.01	11:00	01-12-2022	-0.77	11:00	24-12-2022	199.5		
	8	Jakkanpur - Patna(PG) ckt - 02	290.03	11:00	01-12-2022	-4.76	06:00	29-12-2022	198.16		
B. Power Flow in 220KV tranmission line											
220 kv (36 nos.)	1	Hajipur - Amnour ckt-01	-100.55	10:00	16-12-2022	-20.94	19:00	18-12-2022	60.22		
	2	Hajipur - Amnour ckt-02	-134.65	06:00	31-12-2022	-18.73	13:00	06-12-2022	60.32		
	3	Patna (PG) - Khagaul ckt-02	89.83	08:00	18-12-2022	8.87	16:00	23-12-2022	41.62		
	4	Patna (PG) - Khagaul ckt-03	89.36	08:00	18-12-2022	8.65	16:00	23-12-2022	41.48		
	5	Khjirsarai - Biharsharif ckt-01	-140.9	19:00	30-12-2022	-5.85	13:00	13-12-2022	-65.14		
	6	Khjirsarai - Biharsharif ckt-02	-142.56	19:00	30-12-2022	-7	13:00	13-12-2022	-65.68		
	7	Khjirsarai - Bodh Gaya ckt-01	-61.44	11:00	28-12-2022	0.13	06:00	29-12-2022	-17.04		
	8	Khjirsarai - Bodh Gaya ckt-02	-61.81	11:00	28-12-2022	0.19	06:00	29-12-2022	-18.65		
	9	Khjirsarai - Gaya (PG) ckt-01	-84.55	11:00	28-12-2022	-14.56	05:00	28-12-2022	-38.55		
	10	Khjirsarai - Gaya (PG) ckt-02	-85.38	11:00	28-12-2022	-14.83	05:00	28-12-2022	-38.42		
	11	Khjirsarai - Narhat ckt-01	143.27	18:00	24-12-2022	36.39	03:00	09-12-2022	64.24		
	12	Khjirsarai - Narhat ckt-02	142.89	18:00	24-12-2022	36.38	03:00	09-12-2022	64.23		
	13	Narhat - Sekhpor Sarai ckt-01	89.90	18:00	24-12-2022	21.68	04:00	16-12-2022	17.90		
	14	Narhat - Sekhpor Sarai ckt-02	89.64	18:00	24-12-2022	21.70	04:00	16-12-2022	17.89		
	15	Sekhpor Sarai - Haveli Kharagpur ckt-01	64.40	18:00	24-12-2022	4.9	10:00	13-12-2022	24.71		
	16	Sekhpor Sarai - Haveli Kharagpur ckt-02	63.80	18:00	24-12-2022	4.3	10:00	13-12-2022	24.14		
	17	Haveli Kharagpur - Goradhih ckt-01	28.5	11:00	23-12-2022	11.8	03:00	24-12-2022	0.86		
	18	Haveli Kharagpur - Goradhih ckt-02	0	00:00	00-00-0000	0	00:00	00-00-0000	0.00	System connected but no power flow	
	19	Mokama-Biharsharif ckt-1	60.70	08:00	10-12-2022	0.00	01:00	01-12-2022	8.21		
	20	Mokama-Biharsharif ckt-2	61.00	08:00	10-12-2022	0.00	01:00	01-12-2022	8.26		
	21	Mokama-BTPS ckt-1	-87.80	08:00	01-12-2022	0.00	01:00	02-12-2022	-28.18		
	22	Mokama-BTPS ckt-2	-88.50	08:00	01-12-2022	0.00	01:00	02-12-2022	-27.00		
	23	Ara(PG)-Dumraon New - 01	-60.9	17:00	27-12-2022	0.07	14:00	06-12-2022	-18.38		
	24	Ara(PG)-Dumraon New - 02	-61.18	17:00	27-12-2022	0.07	14:00	06-12-2022	-18.38		
	25	Dumraon New-Nadokhar - 01	-61.3	11:00	20-12-2022	-0.05	03:00	17-12-2022	-19.48		
	26	Dumraon New-Nadokhar - 02	-62.03	11:00	20-12-2022	-0.01	03:00	17-12-2022	-19.59		
	27	Naubatpur- Ara(PG) Ckt-01	206.09	11:00	23-12-2022	27.52	22:00	03-12-2022	84.41		
	28	Naubatpur- Ara(PG) Ckt-02	180.39	17:00	21-12-2022	27.69	22:00	03-12-2022	84.05		
	29	Naubatpur- Khagaul Ckt-01	-140.89	17:00	20-12-2022	-0.01	16:00	23-12-2022	-33.47		
	30	Naubatpur- Khagaul Ckt-02	-127.97	18:00	18-12-2022	-0.14	11:00	01-12-2022	-32.75		
	31	Naubatpur- Bhusaula Ckt-01	5.74	11:00	14-12-2022	0.02	20:00	27-12-2022	2.15		
	32	Naubatpur- Bhusaula Ckt-02	5.45	11:00	14-12-2022	0.01	09:00	01-12-2022	1.88		
	33	Naubatpur- Bihta Ckt-01	-54.48	18:00	18-12-2022	0.02	13:00	23-12-2022	-7.51		
	34	Naubatpur- Bihta Ckt-02	-54.20	18:00	18-12-2022	0.03	13:00	23-12-2022	-7.54		
	35	Jakkanpur - Sipara ckt-03	76.29	10:00	21-12-2022	19.67	03:00	05-12-2022	44.39		
	36	Jakkanpur - Khagaul ckt	167.67	18:00	17-12-2022	55.48	03:00	28-12-2022	118.49		
C. Power Flow in 132 kv tranmission line											
132 kv (40 nos.)	1	Amnour - Siwan ckt-01	68.67	18:00	23-12-2022	0.09	23:00	11-12-2022	31.74		
	2	Amnour - Siwan ckt-02	69.28	18:00	23-12-2022	16.93	15:00	24-12-2022	31.05		
	3	Amnour - Chhapara ckt-01	77.85	10:00	14-12-2022	10.26	22:00	06-12-2022	23.16		
	4	Amnour - Chhapara ckt-02	42.08	19:00	19-12-2022	10.19	22:00	06-12-2022	17.92		
	5	Khjirsarai - Bodh Gaya ckt -03	0.13	04:00	29-12-2022	0.00	14:00	08-12-2022	0.03		
	6	Khjirsarai - Wajirganj ckt -01	42.36	08:00	23-12-2022	0.11	10:00	13-12-2022	27.62		
	7	Khjirsarai-Hulasganj ckt-01	64.23	18:00	21-12-2022	0.00	00:00	15-12-2022	14.90		
	8	Khjirsarai - Jehanabad ckt-01	54.78	18:00	05-12-2022	10.49	14:00	08-12-2022	30.85		
	9	Khjirsarai - Jehanabad ckt-02	55.02	18:00	05-12-2022	10.50	14:00	08-12-2022	30.84		
	10	Narhat - Nawadah ckt-01	52.45	18:00	02-12-2022	9.60	05:00	08-12-2022	22.89		
	11	Narhat - Nawadah ckt-02	45.2	09:00	30-12-2022	9.76	13:00	12-12-2022	20.55		
	12	Haveli Kharagpur - Sultanganj ckt-01	25.8	17:00	24-12-2022	11.5	10:00	24-12-2022	0.24		
	13	Haveli Kharagpur - Sultanganj ckt-02	25.7	17:00	24-12-2022	11.4	10:00	24-12-2022	0.24		
	14	Haveli Kharagpur - Lakhisarai ckt-01	0	00:00	00-00-0000	0	00:00	00-00-0000	0.00	System connected but no power flow	
	15	Haveli Kharagpur - Lakhisarai ckt-02	0	00:00	00-00-0000	0	00:00	00-00-0000	0.00	System connected but no power flow	
	16	Haveli Kharagpur- Jamalpur ckt-01	21.80	09:00	31-12-2022	4.4	15:00	22-12-2022	14.17		
	17	Haveli Kharagpur- Jamalpur ckt-02	21.80	09:00	31-12-2022	4.4	15:00	22-12-2022	14.17		
	18	Sekhpor Sarai - Sekhpura ckt-01	21.80	08:00	16-12-2022	3.2	05:00	02-12-2022	18.52		
	19	Sekhpor Sarai - Sekhpura ckt-02	21.80	08:00	16-12-2022	6.5	04:00	23-12-2022	18.54		
	20	Sekhpor Sarai - Bihsarif	0	00:00	00-00-0000	0	00:00	00-00-0000	0.00		
	21	Goradhi - Sultanganj ckt-01	0.00	00:00	01-12-2022	0.00	00:00	01-12-2022	0.01	System connected but no power flow	
	22	Goradhi - Sultanganj ckt-02	0.00	00:00	01-12-2022	0.00	00:00	01-12-2022	0.01	System connected but no power flow	
	23	Goradhi - Kahalgaoon ckt-01	0.00	00:00	01-12-2022	0.00	00:00	01-12-2022	0.01	System connected but no power flow	
	24	Goradhi - Kahalgaoon ckt-02	0.00	00:00	01-12-2022	0.00	00:00	01-12-2022	0.01	System connected but no power flow	
	25	Goradhi - Sabour ckt-01	-24.90	17:00	25-12-2022	0.00	11:00	23-12-2022	-9.21		
	26	Goradhi - Sabour ckt-02	12.60	17:00	17-12-2022	0.00	11:00	23-12-2022	-7.26		
	27	Mokama-Hatidah ckt-01	33.20	09:00	25-12-2022	0.00	13:00	17-12-2022	17.52		
	28	Mokama-Hatidah ckt-02	33.60	09:00	25-12-2022	0.00	13:00	17-12-2022	17.66		
	29	Dumraon new (BGCL)-Dumraon (BSPTCL) ckt-01	61.00	18:00	21-12-2022	8.59	15:00	18-12-2022	28.67		
	30	Dumraon new (BGCL)-Dumraon (BSPTCL) ckt-02	79.49	18:00	18-12-2022	10.51	10:00	27-12-2022	29.43		
	31	Dumraon-Buxar ckt-01	23.88	18:00	29-12-2022	0.01	17:00	20-12-2022	12.82		
	32	Dumraon-Buxar ckt-02	23.84	18:00	29-12-2022	0.01	17:00	20-12-2022	12.84		
	33	Dumraon-Ara ckt-01	0.00	00:00	01-12-2022	0.00	00:00	01-12-2022	0.00	System connected but no power flow	
	34	Dumraon-Ara ckt-02	0.00	00:00	01-12-2022	0.00	00:00	01-12-2022	0.00	System connected but no power flow	
	35	Dumraon-Jagdishpur ckt-01	-20.08	18:00	18-12-2022	-2.37	14:00	02-12-2022	-9.31		
	36	Dumraon-Jagdishpur ckt-02	-20.07	18:00	18-12-2022	-2.36	14:00	02-12-2022	-9.30		
	37	Naubatpur - Masaurhi ckt - 01	18.42	12:00	13-12-2022	0.17	15:00	20-12-2022	7.77		
	38	Naubatpur - Masaurhi ckt - 02	20.13	10:00	13-12-2022	0.17	15:00	20-12-2022	7.48		
	39	Jakkanpur-Sipara-03	29.74	18:00	17-12-2022	2.52	04:00	20-12-2022	16.80		
	40	Jakkanpur-Fathua	93.21	14:00	20-12-2022	18.93	03:00	05-12-2022	34.83		

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	140.59	07:00	11-12-2022	18.69	13:00	06-12-2022	73.30		
	2	Tr-02-160 MVA, 220-132 kV	113.55	09:00	23-12-2022	0.04	07:00	11-12-2022	74.27		
	3	Tr-01-50 MVA, 132-33 kV	9.98	22:00	02-12-2022	0.25	00:00	28-12-2022	10.70		
	4	Tr-02-50 MVA, 132-33 kV	9.99	22:00	13-12-2022	0.25	00:00	28-12-2022	10.75		
KhjirSarai GIS	1	Tr-01-160 MVA, 220-132 kV	106.82	11:00	14-12-2022	25.86	10:00	29-12-2022	56.47		
	2	Tr-02-160 MVA, 220-132 kV	107.79	18:00	21-12-2022	27.14	10:00	29-12-2022	58.44		
	3	Tr-01-50 MVA, 132-33 kV	Not Commissioned								
	4	Tr-02-50 MVA, 132-33 kV	13.94	10:00	30-12-2022	0.03	15:00	14-12-2022	3.87		
Narhat GIS	5	Tr-03-50 MVA, 132-33 kV	10.89	09:00	23-12-2022	1.28	13:00	09-12-2022	6.78		
	1	Tr-01-160 MVA, 220-132 kV	56.82	09:00	30-12-2022	4.39	16:00	02-12-2022	14.52		
	2	Tr-02-160 MVA, 220-132 kV	56.50	18:00	02-12-2022	3.99	14:00	19-12-2022	13.27		
	3	Tr-01-50 MVA, 132-33 kV	7.56	10:00	23-12-2022	0.11	08:00	14-12-2022	3.65		
Sekhopur Sarai GIS	4	Tr-02-50 MVA, 132-33 kV	14.67	18:00	20-12-2022	0.03	12:00	09-12-2022	8.50		
	1	Tr-01-160 MVA, 220-132 kV	31.00	08:00	16-12-2022	2.70	01:00	26-12-2022	26.10		
	2	Tr-02-160 MVA, 220-132 kV	41.50	13:00	30-12-2022	1.00	01:00	26-12-2022	26.68		
	3	Tr-01-50 MVA, 132-33 kV	1.20	08:00	25-12-2022	0.20	10:00	02-12-2022	0.90		
Haveli Kharagpur GIS	4	Tr-02-50 MVA, 132-33 kV	18.20	10:00	24-12-2022	1.20	05:00	22-12-2022	15.41		
	1	Tr-01-160 MVA, 220-132 kV	47.50	17:00	24-12-2022	7.90	15:00	22-12-2022	18.37		
	2	Tr-02-160 MVA, 220-132 kV	45.60	17:00	24-12-2022	7.00	15:00	22-12-2022	17.11		
	3	Tr-01-50 MVA, 132-33 kV	5.60	17:00	29-12-2022	2.20	04:00	28-12-2022	4.04		
Goradih GIS	4	Tr-02-50 MVA, 132-33 kV	4.00	17:00	17-12-2022	1.10	21:00	26-12-2022	2.56		
	1	Tr-01-160 MVA, 220-132 kV	25.10	17:00	23-12-2022	0.00	00:00	01-12-2022	0.75		
	2	Tr-02-160 MVA, 220-132 kV	Not Commissioned								
	3	Tr-01-50 MVA, 132-33 kV	12.30	16:00	17-12-2022	1.40	05:00	05-12-2022	7.48		
Mokama GIS	4	Tr-02-50 MVA, 132-33 kV	15.40	10:00	27-12-2022	0.00	05:00	05-12-2022	9.63		
	1	Tr-01-160 MVA, 220-132 kV	Not Commissioned								
	2	Tr-02-160 MVA, 220-132 kV	69.80	09:00	31-12-2022	4.30	14:00	17-12-2022	39.66		
	3	Tr-01-50 MVA, 132-33 kV	Not Commissioned								
Dumraon GIS	4	Tr-02-80 MVA, 132-33 kV	8.70	18:00	28-12-2022	0.00	01:00	01-12-2022	1.31		
	1	Tr-01-160 MVA, 220-132 kV	157.53	17:00	27-12-2022	33.84	04:00	21-12-2022	74.79		
	2	Tr-02-160 MVA, 220-132 kV	Not Commissioned								
	3	Tr-01-80 MVA, 132-33 kV	19.79	08:00	21-12-2022	0.03	07:00	23-12-2022	10.11		
Naubatpur GIS	4	Tr-02-80 MVA, 132-33 kV	17.84	10:00	23-12-2022	0.03	17:00	23-12-2022	0.38		
	1	Tr-01-500 MVA, 400-220 kV	Not Commissioned								
	2	Tr-02-500 MVA, 400-220 kV	-235.06	15:00	17-12-2022	-50.88	08:00	19-12-2022	-108.57		
	3	Tr-01-160 MVA, 220-132 kV	30.16	18:00	03-12-2022	1.66	14:00	31-12-2022	17.38		
Jakkanpur GIS	4	Tr-02-160 MVA, 220-132 kV	Not Commissioned								
	5	Tr-01-80 MVA, 132-33 kV	0.04	00:00	01-11-2022	0.03	06:00	01-11-2022	0.03		
	6	Tr-02-80 MVA, 132-33 kV	3.19	08:00	30-12-2022	0.06	12:00	14-12-2022	1.82		
	1	Tr-01-500 MVA, 400-220 kV	133.37	18:00	20-12-2022	16.61	03:00	01-12-2022	98.44		
	2	Tr-02-500 MVA, 400-220 kV	133.29	18:00	20-12-2022	16.6	03:00	01-12-2022	98.3		
	3	Tr-01-160 MVA, 220-132 kV	74.44	14:00	20-12-2022	22.54	15:00	17-12-2022	47.91		
	4	Tr-02-160 MVA, 220-132 kV	Not Commissioned								
Bhusaula GIS	5	Tr-01-80 MVA, 132-33 kV	Not Commissioned								
	6	Tr-02-80 MVA, 132-33 kV	Not Commissioned								
	7	Tr-04-80 MVA, 132-33 kV	0.1	05:00	13-12-2022	0.04	14:00	19-12-2022	0.09		
Note	1	Tr-01 100 MVA, 220-33kV	11.27	11:00	14-12-2022	0.00	06:00	31-12-2022	-5.85		
	2	Tr-02 100 MVA, 220-33kV	Not Commissioned								
Note Negative sign(-) denote import of power and positive sign (+) denote export of power.											