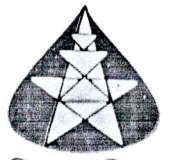


बिहार ग्रिड कम्पनी लिमिटेड

(संयुक्त उपक्रम बिहार स्टेट पावर (होल्डिंग) कं० लि० एवं पावरग्रिड)

BIHAR GRID COMPANY LIMITED

(Joint Venture of Bihar State Power (Holding) Co. Ltd. & POWERGRID)



बिहार ग्रिड

द्वितीय तल, अलंकार प्लेस, बोरिंग रोड, पटना-800 001, दूरभाष : 0612-2530477 (कार्यालय)
2nd Floor, Alankar Place, Boring Road, Patna- 800 001, Tel. : 0612-2530477 (Off.), E-mail : bihargrid@gmail.com

CIN : U40100BR2013PLC019722

Ref : JV/PT/BG/COMM/TARIFF/883

Date:09/11/2021

To,

The Secretary,
Bihar Electricity Regulatory Commission,
Vidyut Bhawan-II,
Bailey Road, Patna-800021.

Sub: Request for Time-Extension for filling of Tariff Petition for BGCL works under Ph-IV, Part-I, II & Supplementary (True up for FY: 2020-21, APR for FY : 2021-22 & ARR for FY : 2022-23 to FY 2024-25).

Respected Sir,

Filing of Tariff Petition for BGCL works under Ph-IV, Part-I, II & Supplementary (True up for FY: 2020-21, APR for FY : 2021-22 & ARR for FY : 2022-23 to FY 2024-25) is due to be submitted by 15.11.2021 as per order dtd 28.10.2021 in case no. SMP-07/2021.

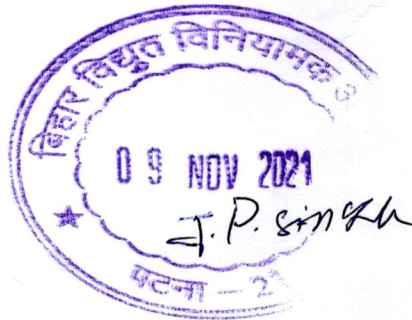
It is to inform that work on preparation of tariff petition got delayed in wait of publication of BERC (Multi Year Transmission Tariff & SLDC Charges) Regulations, 2021. Further, the festive season & holidays are going on in State of Bihar & the office work will resume from 15th November. However, the preparation of subject tariff petition is under progress & shall be filled on or before 10.12.2021.

In light of the same, Petitioner requests the Hon'ble Commission to kindly extend the date of filing of BGCL's subject Tariff petition by 10.12.2021.

Thanking you.

Yours faithfully

(Md. Nasim Eqbal) 09.11.2021
Sr. GM (O&M/Comm)



Summary of Cost Estimate

Supply, Installation, Testing & Commissioning of ABT Interface Energy Meters (IEM) along with Automated Meter Reading (AMR) as per SAMAST guidelines at various Grid substations in Bihar Grid Company Limited (BGCL)

Sl. No	Item Description	Total Value		
		Phase 1	Phase 2	Total
1	Supply	3,14,89,986	5,78,83,973	8,93,73,959
2	Erection & Commissioning	43,05,606	1,28,73,841	1,71,79,448
3	Energy Audit and Report Generation for 5 Years	80,97,443	2,98,59,322	3,79,56,765
4	AMC for 5 Years	1,59,59,781	1,59,59,781	3,19,19,562
5	Total	5,98,52,816	11,65,76,917	17,64,29,734

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BIHARGRID COMPANY LIMITED

Supply, Installation, Testing & Commissioning of ABT Interface Energy Meters (IEM) along with Automated Meter Reading (AMR) as per SAMAST guidelines at various Grid substations in Bihar Grid Company Limited (BGCL)

Supply Portion :

Sr. No.	Item description	Unit	Quantity			Unit Ex-Works Price	GST	Total Unit Price (Inc GST)	Total Price (Supply)			
			Phase 1	Phase 2	Total				Rs.	Phase 1	Phase 2	Total
A	Substation Control Relay Room H/W and S/W											
1	3 Phase, 4 wire, 0.2S, Rack mounted ABT Meter, Optical, RS232, RS485, Ethernet and USB Port	No.	80	320	400	99,625	18%	1,17,558	94,04,600	3,76,18,400	4,70,23,000	
2	3 Phase, 4 wire, 0.2S, Rack mounted ABT Meter, with Class A PQ features Optical, RS232, RS485, Ethernet and USB Port	No.	7	11	18	3,50,000	18%	4,13,000	28,91,000	45,43,000	74,34,000	
3	Metering Panel for 8 Nos. Apex 100 Meters	No.	10	71	81	1,00,550	18%	1,18,649	11,86,490	84,24,079	96,10,569	
4	DCU (inbuilt 4G GPRS Modem)	Set	8	7	15	1,30,000	18%	1,53,400	12,27,200	10,73,800	23,01,000	
5	Network Switch 24 TCP/IP Port +2 SFP port 10/100 Mbps as per project requirement (CISCO)	No.	8	7	15	70,000	18%	82,600	6,60,800	5,78,200	12,39,000	
6	7 core 2.5 sq mm armoured control cable FRLS (Cu) for CT connection	Mtr	3,000	4,000	7,000	308	18%	363	10,90,320	14,53,760	25,44,080	
7	4 core 2.5 sq mm armoured control cable FRLS (Cu) for PT connection	Mtr	3,000	1,200	4,200	195	18%	230	6,90,300	2,76,120	9,66,420	
8	3 core 2.5 sq mm armoured cable FRLS (Cu) for UPS & other IT H/W supply	Mtr	1,500	1,300	2,800	157	18%	185	2,77,890	2,40,838	5,18,728	
9	2 core 2.5 sq mm armoured cable FRLS (Cu) for AC/DC Aux supply	Mtr	3,000	2,600	5,600	124	18%	146	4,38,960	3,80,432	8,19,392	
10	Communication cable (Quantity is tentative and the same shall be as per project requirement during detail engineering)	Mtr	720	680	1,400	38	18%	45	32,370	30,571	62,941	
11	PVC conduit Pipe for communication cable (3/4"	Mtr	700	560	1,260	45	18%	53	37,418	29,934	67,352	
B	Sustation Control Room H/W and S/W											
1	UPS - 2 KVA online with 60 min back up on 100% load	No.	7	7	14	94,494	28%	1,20,952	8,46,666	8,46,666	16,93,332	
2	Client PC as per specification & project requirement (Without Windows License)	Set	7	7	14	1,39,125	18%	1,64,168	11,49,173	11,49,173	22,98,345	
3	Licensed Data acquisition software for local data monitoring at each GSS	Lot	7	7	14	80,000	18%	94,400	6,60,800	6,60,800	13,21,600	
4	Network Switch 8 SFP Port + 2 TCP/IP port 10/100 Mbps as per project requirement (CISCO)	No.	7	7	14	70,000	18%	82,600	5,78,200	5,78,200	11,56,400	
C	Central Data Centre (At Present ESPTCL, Viduyut Bhawan)											
1	DAS/AMR software module	No.	1	-	1	70,00,000	18%	82,60,000	82,60,000	-	82,60,000	
2	Database Server (Main & Backup)	Nos.	2	-	2	8,71,949	18%	10,28,900	20,57,800	-	20,57,800	
D	Supply Total							1,06,37,250	3,14,89,986	5,78,83,973	8,93,73,959	

Supply, Installation, Testing & Commissioning of ABT Interface Energy Meters (IEM) along with Automated Meter Reading (AMR) as per SAMAST guidelines at various Grid substations in Bihar Grid Company Limited (BGCL)

Installation Portion :

Sr. No.	Item description	Unit	Qty			Basic price (per unit)	GST %	Total unit Price (Inc. GST)	Total Price (Installation)		
			Phase 1	Phase 2	Total				Phase 1	Phase 2	Total
1	Detailed Survey, preparation of drawings for installation of Energy Meters/Metering Panels/modifications in existing panels (as applicable) of the Grid Substations for the actual requirement of Energy meter/Metering panels for accessing GSS wise actual requirement.	Nos.	7	24	31	Rs. 25,417	18%	29,992	2,09,944	7,19,809	9,29,754
2	Erection, testing and commissioning of 3 Phase, 4 wire, 0.2S accuracy class Trivector static Energy Meter as per specification including all consumables viz. Lugs, wires, terminals blocks & connectors, ferrulls etc. (364 nos. SEM & 11 nos. PQ Meter)	No.	80	295	375	Rs. 22,500	18%	26,550	21,24,000	78,32,250	99,56,250
4	Erection, testing and commissioning of Metering panel suitable to mount 8 nos of rack mounted meters as per specification including all consumables viz. Lugs, wires, terminals blocks & connectors, ferrulls etc.	No.	10	64	74	Rs. 42,673	18%	50,354	5,03,541	32,22,665	37,26,206
5	Erection, testing and commissioning of Communication Hardwares (DCU, switches, LAN etc) at each GSS as per specification & project requirement/ approved drawing after detail engineering including all consumables viz. Lugs, wires, terminals blocks & connectors, ferrulls etc. (Per Sub Station)	Set	8	7	15	Rs. 85,065	18%	1,00,377	8,03,014	7,02,637	15,05,651
6	Laying, testing and commissioning of 7 core 2.5 sq mm armoured control cable FRLS (Cu) for CT connection as per project requirement	Mtr	3,000	4,000	7,000	Rs. 47	18%	55	1,66,380	2,21,840	3,88,220
7	Laying, testing and commissioning of 4 core 2.5 sq mm armoured control cable FRLS (Cu) for PT connection as per project requirement	Mtr	3,000	1,200	4,200	Rs. 41	18%	48	1,45,140	58,056	2,03,196
8	Laying, testing and commissioning of 2 core 2.5 sq mm armoured cable FRLS (Cu) for AC/DC Aux supply as per project project requirement	Mtr	3,000	2,600	5,600	Rs. 38	18%	45	1,34,520	1,16,584	2,51,104
9	Installation of Database Server (2 Nos.) at Central Station along with DAS Software	Lump sum	1	-	1	Rs. 1,85,650	18%	2,19,067	2,19,067	-	2,19,067
Total Installation									43,05,606	1,28,73,841	1,71,79,448

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Supply, Installation, Testing & Commissioning of ABT Interface Energy Meters (IEM) along with Automated Meter Reading (AMR) as per SAMAST guidelines at various Grid substations in Bihar Grid Company Limited (BGCL)

AMC Service Part

Sr. No.	Item description	Unit	Quantity			Duration in Yrs.	Basic price (per unit)		GST %	Total unit Price (inc. GST) Rs.	Total Price (Landed)		
			Phase 1	Phase 2	Total		Rs.				Phase 1	Phase 2	Total
AMC Services													
1	Yearly service charges for carrying out Energy Accounting and Audit of the entire transmission system, Generation & Analysis of various reports, MIS reports, ABT UI reports & monitoring etc for 5 years as per requirement.	Nos.	80	295	375	1st Year	14,050	18%	16,579	13,26,320	48,90,805	62,17,125	
		Nos.	80	295	375	2nd Year	15,455	18%	18,237	14,58,952	53,79,886	68,38,838	
		Nos.	80	295	375	3rd year	17,001	18%	20,061	16,04,894	59,18,048	75,22,943	
		Nos.	80	295	375	4th Year	18,701	18%	22,067	17,65,374	65,09,818	82,75,193	
		Nos.	80	295	375	5th Year	20,571	18%	24,274	19,41,902	71,60,765	91,02,668	
A. Total For Energy Audit & Report generation													
										80,97,443	2,98,59,322	3,79,56,765	
2	Yearly Service charge for maintenance of the whole system (by way of AMC) for 5(Five) years and training to BGCL personnel as per need.	Lot	1	1	2	1st Year	22,15,400	18%	26,14,172	26,14,172	26,14,172	52,28,344	
		Lot	1	1	2	2nd Year	24,36,940	18%	28,75,589	28,75,589	28,75,589	57,51,178	
		Lot	1	1	2	3rd year	26,80,634	18%	31,63,148	31,63,148	31,63,148	63,26,296	
		Lot	1	1	2	4th Year	29,48,697	18%	34,79,462	34,79,462	34,79,462	69,58,925	
		Lot	1	1	2	5th Year	32,43,567	18%	38,27,409	38,27,409	38,27,409	76,54,818	
B Total For Yearly Maintenance													
										1,59,59,781	1,59,59,781	3,19,19,562	
Total for Service													
										2,40,57,224	4,58,19,103	6,98,76,327	

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BIHARGRID COMPANY LIMITED
ABT Energy Meter Requirement Summary Sheet

Phase IV, Part I

Substation	400 kV	220kV	132kV	33kV
Amnour	-	4	8	10
Khijirsarai	-	10	10	14
Narhat	-	6	6	10
Shekhopur Sarai	-	6	7	10
Haveli Kharagpur	-	6	10	10
Goradih	-	4	10	10
Mokama	-	6	6	10
Extension S/s				
Hajipur	-	5	-	-
Siwan	-	-	2	-
Chhapra	-	-	2	-
Gaya PG	-	2	-	-
Jehanabad	-	-	2	-
Hulasganj	-	-	1	-
Nawada	-	-	2	-
Sheikhpura	-	-	2	-
Biharsharif	-	-	1	-
Jamalpur	-	-	2	-
Sabour	-	-	2	-
Hathidah	-	-	2	-
Patna	-	2	-	-
Khagaul	-	2	-	-
Bihta	-	-	2	-
Total	-	53	77	74
Sub Total				204
Spare				20
Power Quality				10
Total				234
Panel				48

Phase IV, Part II

Substation	400 kV	220kV	132kV	33kV
Jakkanpur New	6	11	13	26
Naubatpur New	6	12	8	14
Dumraon New	-	6	12	14
Bhusaula New	-	4	-	14
Extension S/s	-	-	-	-
Bihta	-	2	-	-
Masauhri	-	-	2	-
Paliganj	-	-	2	-
Dumraon	-	-	2	-
Buxar	-	-	2	-
Katihar	-	-	2	-
Total	12	35	43	68
Sub Total				158
Spare				16
Power Quality				8
Total				182
Panel				32

Phase IV, Part II Supplementary Project

Substation	400 kV	220kV	132kV	33kV
Amnour	-	1	1	-
Total				2
Panel				1

Grand Total ABT Energy Meter (Part I + Part II + Supplementary)	418
Total SEM & PQ meter to be installed (Part I + Part II + Supplementary)	375
Total SEM & PQ meter Considered for Spare (Part I + Part II + Supplementary)	43
Total meter panel to be installed (Part I + Part II + Supplementary)	74
Total meter panel Considered for Spare (Part I + Part II + Supplementary)	7

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Details of meter location in different lines, transformers and other bays of BGCL Phase IV Part 2 project

Sl. No	Name of Element	ABT Meter Requirement	ABT Meter under current procurement	Additional ABT Meter to be procured	ABT Meter installed/prop osed by POWERGRID	Panel Requirement
A	400 kV GIS Hall CRP Room					
a	Jakkanpur New					
1	400 kV (LILO portion) D/C Nabinagar-II (NPGCL) - Jakkanpur New (BGCL) Ckt - I	1	-	-	1	1
2	400 kV (LILO portion) D/C Nabinagar-II (NPGCL) - Jakkanpur New (BGCL) Ckt - II	1	-	-	1	
3	400 kV (LILO portion) D/C Jakkanpur New (BGCL) - Patna (PG) Ckt - I	1	-	-	1	
4	400 kV (LILO portion) D/C Jakkanpur New (BGCL) - Patna (PG) Ckt - II	1	-	-	1	
5	400/220 kV, 500 MVA ICT - I at Jakkanpur New GIS (HV Side)	1	-	1	-	
6	400/220 kV, 500 MVA ICT - II at Jakkanpur New GIS (HV Side)	1	-	1	-	
b	Naubatpur New					
1	400 KV (LILO Portion of Ckt 3 & 4) D/C (Quad), Patna (PG) - Naubatpur New (BGCL) Ckt - III	1	-	-	1	1
2	400 KV (LILO Portion of Ckt 3 & 4) D/C (Quad), Patna (PG) - Naubatpur New (BGCL) Ckt - IV	1	-	-	1	
3	400 KV (LILO Portion of Ckt 3 & 4) D/C (Quad), Naubatpur New (BGCL) - Balia (PG) Ckt - III	1	-	-	1	
4	400 KV (LILO Portion of Ckt 3 & 4) D/C (Quad), Naubatpur New (BGCL) - Balia (PG) Ckt - IV	1	-	-	1	
5	400/220 kV, 500 MVA ICT - I at Naubatpur GIS (HV Side)	1	-	1	-	
6	400/220 kV, 500 MVA ICT - II at Naubatpur GIS (HV Side)	1	-	1	-	
B	220 kV GIS Hall CRP Room					
a	Jakkanpur New					
1	220 kV (LILO Portion) D/C Jakkanpur New (BGCL) - Sipara (BSPTCL) Ckt - I	1	-	1	-	2
2	220 kV (LILO Portion) D/C Jakkanpur New (BGCL) - Sipara (BSPTCL) Ckt - II	1	-	1	-	
3	220 kV (LILO Portion) D/C Jakkanpur New (BGCL) - Bihta New (BSPTCL) Ckt - I	1	-	1	-	
4	220 kV (LILO Portion) D/C Jakkanpur New (BGCL) - Bihta New (BSPTCL) Ckt - II	1	-	1	-	
5	220 kV (LILO Portion) S/C Jakkanpur New (BGCL) - Sipara (BSPTCL) TL	1	-	1	-	
6	220 kV (LILO Portion) S/C Jakkanpur New (BGCL) - Khagaul (BSPTCL) TL	1	-	1	-	
7	400/220 kV, 500 MVA ICT - I at Jakkanpur New GIS (LV Side)	1	-	1	-	
8	400/220 kV, 500 MVA ICT - II at Jakkanpur New GIS (LV Side)	1	-	1	-	
9	220/132 kV, 160 MVA, ICT - I at Jakkanpur New GIS (HV Side)	1	-	1	-	
10	220/132 kV, 160 MVA, ICT - II at Jakkanpur New GIS (HV Side)	1	-	1	-	
11	220/132 kV, 160 MVA, ICT - III at Jakkanpur New GIS (HV Side)	1	-	1	-	
b	Naubatpur New					
1	220 kV (LILO Portion) D/C Ara (PG) - Naubatpur New (BGCL) Ckt - I	1	-	-	1	2
2	220 kV (LILO Portion) D/C Ara (PG) - Naubatpur New (BGCL) Ckt - II	1	-	-	1	
3	220 kV (LILO Portion) D/C Naubatpur New (BGCL) - Khagaul (BSPTCL) Ckt - I	1	-	1	-	
4	220 kV (LILO Portion) D/C Naubatpur New (BGCL) - Khagaul (BSPTCL) Ckt - II	1	-	1	-	
5	220 KV D/C Naubatpur New (BGCL) - Bihta New (BSPTCL) Ckt - I	1	-	1	-	
6	220 KV D/C Naubatpur New (BGCL) - Bihta New (BSPTCL) Ckt - II	1	-	1	-	
7	220 KV D/C Naubatpur New (BGCL) - Bhusaula New (BGCL) Ckt - I	1	-	1	-	
8	220 KV D/C Naubatpur New (BGCL) - Bhusaula New (BGCL) Ckt - II	1	-	1	-	
9	400/220 kV, 500 MVA ICT - I at Naubatpur GIS (LV Side)	1	-	1	-	
10	400/220 kV, 500 MVA ICT - II at Naubatpur GIS (LV Side)	1	-	1	-	
11	220/132 kV, 160 MVA, ICT - I at Naubatpur New GIS (HV Side)	1	-	1	-	
12	220/132 kV, 160 MVA, ICT - II at Naubatpur New GIS (HV Side)	1	-	1	-	
c	Dumraon New					
1	220 KV (LILO Portion) D/C Ara (PG) - Dumraon New (BGCL) Ckt - I	1	-	-	1	1

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Details of meter location in different lines, transformers and other bays of BGCL Phase IV Part 2 project

Sl. No	Name of Element	ABT Meter Requirement	ABT Meter under current procurement	Additional ABT Meter to be procured	ABT Meter installed/proposed by POWERGRID	Panel Requirement
2	220 KV (LILO Portion) D/C Ara (PG) - Dumraon New (BGCL) Ckt - II	1	-	-	1	1
3	220 KV (LILO Portion) D/C Dumraon New (BGCL)- Nadokhar (BSPTCL) Ckt - I	1	-	1	-	
4	220 KV (LILO Portion) D/C Dumraon New (BGCL) - Nadokhar (BSPTCL) Ckt - II	1	-	1	-	
5	220/132 kV, 160 MVA, ICT - I at Dumraon New GIS (HV Side)	1	-	1	-	
6	220/132 kV, 160 MVA, ICT - II at Dumraon New GIS (HV Side)	1	-	1	-	
d Bhusaula New						
1	220 KV D/C Naubatpur New (BGCL) - Bhusaula New (BGCL) Ckt - I	1	-	1	-	1
2	220 KV D/C Naubatpur New (BGCL) - Bhusaula New (BGCL) Ckt - II	1	-	1	-	
3	220/33 kV, 100 MVA, ICT - I at Bhusaula New GIS (HV Side)	1	-	1	-	
4	220/33 kV, 100 MVA, ICT - II at Bhusaula New GIS (HV Side)	1	-	1	-	
C 132 kV GIS Hall CRP Room						
a Jakkanpur New						
1	132 KV (LILO Portion) D/C Jakkanpur New (BGCL) - Jakkanpur (BSPTCL) Ckt - I	1	-	1	-	2
2	132 KV (LILO Portion) D/C Jakkanpur New (BGCL) - Jakkanpur (BSPTCL) Ckt - II	1	-	1	-	
3	132 KV (LILO Portion) D/C Jakkanpur New (BGCL) - Sipara (BSPTCL) Ckt - I	1	-	1	-	
4	132 KV (LILO Portion) D/C Jakkanpur New (BGCL) - Sipara (BSPTCL) Ckt - II	1	-	1	-	
5	132 KV (LILO Portion) S/C Jakkanpur New (BGCL) - Jakkanpur/Mithapur (BSPTCL) TL	1	-	1	-	
6	132 KV (LILO Portion) S/C Jakkanpur New (BGCL) - Fatuha (BSPTCL) TL	1	-	1	-	
7	220/132 kV, 160 MVA, ICT - I at Jakkanpur New GIS (LV Side)	1	-	1	-	
8	220/132 kV, 160 MVA, ICT - II at Jakkanpur New GIS (LV Side)	1	-	1	-	
9	220/132 kV, 160 MVA, ICT - III at Jakkanpur New GIS (LV Side)	1	-	1	-	
10	132/33 kV, 80 MVA, ICT - I at Jakkanpur New GIS (HV Side)	1	-	1	-	
11	132/33 kV, 80 MVA, ICT - II at Jakkanpur New GIS (HV Side)	1	-	1	-	
12	132/33 kV, 80 MVA, ICT - III at Jakkanpur New GIS (HV Side)	1	-	1	-	
13	132/33 kV, 80 MVA, ICT - IV at Jakkanpur New GIS (HV Side)	1	-	1	-	
b Naubatpur New						
1	132 KV D/C Naubatpur New (BGCL) - Masaurhi (BSPTCL) Ckt - I	1	-	1	-	1
2	132 KV D/C Naubatpur New (BGCL) - Masaurhi (BSPTCL) Ckt - II	1	-	1	-	
3	132 KV D/C Naubatpur New (BGCL) - Paliganj (BSPTCL) Ckt - I	1	-	1	-	
4	132 KV D/C Naubatpur New (BGCL) - Paliganj (BSPTCL) Ckt - II	1	-	1	-	
5	220/132 kV, 160 MVA, ICT - I at Naubatpur New GIS (LV Side)	1	-	1	-	
6	220/132 kV, 160 MVA, ICT - II at Naubatpur New GIS (LV Side)	1	-	1	-	
7	132/33 kV, 80 MVA, ICT - I at Naubatpur New GIS (HV Side)	1	-	1	-	
8	132/33 kV, 80 MVA, ICT - II at Naubatpur New GIS (HV Side)	1	-	1	-	
c Dumraon New						
1	132 kV D/C Dumraon New (BGCL) - Dumraon (BSPTCL) Ckt - I	1	-	1	-	2
2	132 kV D/C Dumraon New (BGCL) - Dumraon (BSPTCL) Ckt - II	1	-	1	-	
3	132 kV D/C Dumraon New (BGCL) - Buxar (BSPTCL) Ckt - I	1	-	1	-	
4	132 kV D/C Dumraon New (BGCL) - Buxar (BSPTCL) Ckt - II	1	-	1	-	
5	132KV (LILO Portion) D/C Dumraon New (BGCL) - Ara (BSPTCL) Ckt - I	1	-	1	-	
6	132KV (LILO Portion) D/C Dumraon New (BGCL) - Ara (BSPTCL) Ckt - II	1	-	1	-	
7	132KV (LILO Portion) D/C Dumraon New (BGCL) - Jagdishpur (BSPTCL) Ckt - I	1	-	1	-	
8	132KV (LILO Portion) D/C Dumraon New (BGCL) - Jagdishpur (BSPTCL) Ckt - II	1	-	1	-	
9	220/132 kV, 160 MVA, ICT - I at Dumraon New GIS (LV Side)	1	-	1	-	
10	220/132 kV, 160 MVA, ICT - II at Dumraon New GIS (LV Side)	1	-	1	-	
11	132/33 kV, 80 MVA, ICT - I at Dumraon New GIS (HV Side)	1	-	1	-	

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Details of meter location in different lines, transformers and other bays of BGCL Phase IV Part 2 project

Sl. No	Name of Element	ABT Meter Requirement	ABT Meter under current procurement	Additional ABT Meter to be procured	ABT Meter installed/proposed by POWERGRID	Panel Requirement
12	132/33 kV, 80 MVA, ICT - II at Dumraon New GIS (HV Side)	1	-	1	-	
D 220kV Bay Extn Substation						
1	220 KV D/C Naubatpur New (BGCL) - Bihta New (BSPTCL) Ckt - I	1	-	1	-	1
2	220 KV D/C Naubatpur New (BGCL) - Bihta New (BSPTCL) Ckt - II	1	-	1	-	
E 132kV Bay Extn Substation						
1	132 KV D/C Naubatpur New (BGCL) - Masaurhi (BSPTCL) Ckt - I	1	-	1	-	1
2	132 KV D/C Naubatpur New (BGCL) - Masaurhi (BSPTCL) Ckt - II	1	-	1	-	
3	132 KV D/C Naubatpur New (BGCL) - Paliganj (BSPTCL) Ckt - I	1	-	1	-	1
4	132 KV D/C Naubatpur New (BGCL) - Paliganj (BSPTCL) Ckt - II	1	-	1	-	
5	132 kV D/C Dumraon New (BGCL) - Dumraon (BSPTCL) Ckt - I	1	-	1	-	1
6	132 kV D/C Dumraon New (BGCL) - Dumraon (BSPTCL) Ckt - II	1	-	1	-	
7	132 kV D/C Dumraon New (BGCL) - Buxar (BSPTCL) Ckt - I	1	-	1	-	1
8	132 kV D/C Dumraon New (BGCL) - Buxar (BSPTCL) Ckt - II	1	-	1	-	
9	132 KV (LILO Portion of One Ckt) D/C Purnea (BSPTCL)- Katihar (BSPTCL) TL	1	-	1	-	1
10	132 KV (LILO Portion of One Ckt) D/C Katihar (BSPTCL) - Naugachhia (BSPTCL) TL	1	-	1	-	
F 33kV SwitchGear Room						
a Jakkanpur New						
1	132/33 kV, 80 MVA, ICT - I at Jakkanpur New GIS (LV Side)	1	-	1	-	
2	132/33 kV, 80 MVA, ICT - II at Jakkanpur New GIS (LV Side)	1	-	1	-	
3	132/33 kV, 80 MVA, ICT - III at Jakkanpur New GIS (LV Side)	1	-	1	-	
4	132/33 kV, 80 MVA, ICT - IV at Jakkanpur New GIS (LV Side)	1	-	1	-	
5	33 kV Feeder-01 at Jakkanpur New GIS	1	-	1	-	
6	33 kV Feeder-02 at Jakkanpur New GIS	1	-	1	-	
7	33 kV Feeder-03 at Jakkanpur New GIS	1	-	1	-	
8	33 kV Feeder-04 at Jakkanpur New GIS	1	-	1	-	
9	33 kV Feeder-05 at Jakkanpur New GIS	1	-	1	-	
10	33 kV Feeder-06 at Jakkanpur New GIS	1	-	1	-	
11	33 kV Feeder-07 at Jakkanpur New GIS	1	-	1	-	
12	33 kV Feeder-08 at Jakkanpur New GIS	1	-	1	-	
13	33 kV Feeder-09 at Jakkanpur New GIS	1	-	1	-	4
14	33 kV Feeder-10 at Jakkanpur New GIS	1	-	1	-	
15	33 kV Feeder-11 at Jakkanpur New GIS	1	-	1	-	
16	33 kV Feeder-12 at Jakkanpur New GIS	1	-	1	-	
17	33 kV Feeder-13 at Jakkanpur New GIS	1	-	1	-	
18	33 kV Feeder-14 at Jakkanpur New GIS	1	-	1	-	
19	33 kV Feeder-15 at Jakkanpur New GIS	1	-	1	-	
20	33 kV Feeder-16 at Jakkanpur New GIS	1	-	1	-	
21	33 kV Feeder-17 at Jakkanpur New GIS	1	-	1	-	
22	33 kV Feeder-18 at Jakkanpur New GIS	1	-	1	-	
23	33 kV Feeder-19 at Jakkanpur New GIS	1	-	1	-	
24	33 kV Feeder-20 at Jakkanpur New GIS	1	-	1	-	
25	33 kV Auxiliary Transformer 1 at Jakkanpur New GIS	1	-	1	-	
26	33 kV Auxiliary Transformer 2 at Jakkanpur New GIS	1	-	1	-	
b Naubatpur New						
1	132/33 kV, 80 MVA, ICT - I at Nubatpur New GIS (LV Side)	1	-	1	-	
2	132/33 kV, 80 MVA, ICT - II at Nubatpur New GIS (LV Side)	1	-	1	-	
3	33 kV Feeder-01 at Naubatpur New GIS	1	-	1	-	
4	33 kV Feeder-02 at Naubatpur New GIS	1	-	1	-	
5	33 kV Feeder-03 at Naubatpur New GIS	1	-	1	-	
6	33 kV Feeder-04 at Naubatpur New GIS	1	-	1	-	
7	33 kV Feeder-05 at Naubatpur New GIS	1	-	1	-	

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Details of meter location in different lines, transformers and other bays of BGCL Phase IV Part 2 project

Sl. No	Name of Element	ABT Meter Requirement	ABT Meter under current procurement	Additional ABT Meter to be procured	ABT Meter installed/proposed by POWERGRID	Panel Requirement	
8	33 kV Feeder-06 at Naubatpur New GIS	1	-	1	-	1	
9	33 kV Feeder-07 at Naubatpur New GIS	1	-	1	-		
10	33 kV Feeder-08 at Naubatpur New GIS	1	-	1	-		
11	33 kV Feeder-09 at Naubatpur New GIS	1	-	1	-		
12	33 kV Feeder-10 at Naubatpur New GIS	1	-	1	-		
13	33 kV Auxiliary Transformer 1 at Naubatpur New GIS	1	-	1	-		
14	33 kV Auxiliary Transformer 2 at Naubatpur New GIS	1	-	1	-		
c Dumraon New							
1	132/33 kV, 80 MVA, ICT - I at Dumraon New GIS (LV Side)	1	-	1	-		2
2	132/33 kV, 80 MVA, ICT - II at Dumraon New GIS (LV Side)	1	-	1	-		
3	33 kV Feeder-01 at Dumraon New GIS	1	-	1	-		
4	33 kV Feeder-02 at Dumraon New GIS	1	-	1	-		
5	33 kV Feeder-03 at Dumraon New GIS	1	-	1	-		
6	33 kV Feeder-04 at Dumraon New GIS	1	-	1	-		
7	33 kV Feeder-05 at Dumraon New GIS	1	-	1	-		
8	33 kV Feeder-06 at Dumraon New GIS	1	-	1	-		
9	33 kV Feeder-07 at Dumraon New GIS	1	-	1	-		
10	33 kV Feeder-08 at Dumraon New GIS	1	-	1	-		
11	33 kV Feeder-09 at Dumraon New GIS	1	-	1	-		
12	33 kV Feeder-10 at Dumraon New GIS	1	-	1	-		
13	33 kV Auxiliary Transformer 1 at Dumraon New GIS	1	-	1	-		
14	33 kV Auxiliary Transformer 2 at Dumraon New GIS	1	-	1	-		
d Bhusaula New							
1	220/33 kV, 100 MVA, ICT - I at Bhusaula New GIS (LV Side)	1	-	1	-	2	
2	220/33 kV, 100 MVA, ICT - II at Bhusaula New GIS (LV Side)	1	-	1	-		
3	33 kV Feeder-01 at Bhusaula New GIS	1	-	1	-		
4	33 kV Feeder-02 at Bhusaula New GIS	1	-	1	-		
5	33 kV Feeder-03 at Bhusaula New GIS	1	-	1	-		
6	33 kV Feeder-04 at Bhusaula New GIS	1	-	1	-		
7	33 kV Feeder-05 at Bhusaula New GIS	1	-	1	-		
8	33 kV Feeder-06 at Bhusaula New GIS	1	-	1	-		
9	33 kV Feeder-07 at Bhusaula New GIS	1	-	1	-		
10	33 kV Feeder-08 at Bhusaula New GIS	1	-	1	-		
11	33 kV Feeder-09 at Bhusaula New GIS	1	-	1	-		
12	33 kV Feeder-10 at Bhusaula New GIS	1	-	1	-		
13	33 kV Auxiliary Transformer 1 at Bhusaula New GIS	1	-	1	-		
14	33 kV Auxiliary Transformer 2 at Bhusaula New GIS	1	-	1	-		
Sub Total		158	-	146	12	29	
Spare (Considering approx 10 % of total Quantity)		16	-	16		3	
Power Quality feature meters each for 04 GIS name Jakkanpur, Naubatpur, Dumraon & Bhusaula (incl. 04 no. as spare)		8	-	8			
Total		182	-	170	12	32	

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**Details of meter location in different lines, transformers and other bays of BGCL
Phase IV Part 1 project**

Sl. No	Name of Element	ABT Meter Requirement	ABT Meter under current procurement	Additional ABT Meter to be procure	ABT Meter installed /proposed by POWERGRI	Panel Requirement
A	220kV GIS Hall CRP Room					
a	Amnour GIS					
1	220 kV D/C Hajipur (BSPTCL) - Amnour (BGCL) Ckt I	1	-	1	-	1
2	220 kV D/C Hajipur (BSPTCL) - Amnour (BGCL) Ckt II	1	-	1	-	
3	220/132 kV, 160 MVA, ICT - I at Amnour GIS (HV Side)	1	-	1	-	
4	220/132 kV, 160 MVA, ICT - II at Amnour GIS (HV Side)	1	-	1	-	
b	Khijirsarai GIS					
1	220kV (LILO portion) D/C Khijirsarai (BGCL) - Biharsharif (BSPTCL) Ckt I	1	-	1	-	2
2	220kV (LILO portion) D/C Khijirsarai (BGCL) - Biharsharif (BSPTCL) Ckt II	1	-	1	-	
3	220kV (LILO portion) D/C Khijirsarai (BGCL) - Bodhgaya (BSPTCL) Ckt I	1	-	1	-	
4	220kV (LILO portion) D/C Khijirsarai (BGCL) - Bodhgaya (BSPTCL) Ckt II	1	-	1	-	
5	220 kV D/C Khizersarai (BGCL) - Gaya (PG) Ckt I	1	-	-	1	
6	220 kV D/C Khizersarai (BGCL) - Gaya (PG) Ckt II	1	-	-	1	
7	220 kV D/C Khizersarai (BGCL) - Narhat (BGCL) Ckt I	1	-	1	-	
8	220 kV D/C Khizersarai (BGCL) - Narhat (BGCL) Ckt II	1	-	1	-	
9	220/132 kV, 160 MVA, ICT - I at Khijirsarai GIS (HV Side)	1	-	1	-	
10	220/132 kV, 160 MVA, ICT - II at Khijirsarai GIS (HV Side)	1	-	1	-	
c	Narhat GIS					
1	220 kV D/C Khizersarai (BGCL) - Narhat (BGCL) Ckt I	1	-	1	-	1
2	220 kV D/C Khizersarai (BGCL) - Narhat (BGCL) Ckt II	1	-	1	-	
3	220 kV D/C Sekhopur Sarai (BGCL) - Narhat (BGCL) Ckt I	1	-	1	-	
4	220 kV D/C Sekhopur Sarai (BGCL) - Narhat (BGCL) Ckt II	1	-	1	-	
5	220/132 kV, 160 MVA, ICT - I at Narhat GIS (HV Side)	1	-	1	-	
6	220/132 kV, 160 MVA, ICT - II at Narhat GIS (HV Side)	1	-	1	-	
d	Shekhopur Sarai GIS					
1	220 kV D/C Sekhopur Sarai (BGCL) - Narhat (BGCL) Ckt I	1	-	1	-	1
2	220 kV D/C Sekhopur Sarai (BGCL) - Narhat (BGCL) Ckt II	1	-	1	-	
3	220 kV D/C Sekhopur Sarai (BGCL) - Haveli Kharagpur (BGCL) Ckt I	1	-	1	-	
4	220 kV D/C Sekhopur Sarai (BGCL) - Haveli Kharagpur (BGCL) Ckt II	1	-	1	-	
5	220/132 kV, 160 MVA, ICT - I at Shekhopur Sarai GIS (HV Side)	1	-	1	-	
6	220/132 kV, 160 MVA, ICT - II at Shekhopur Sarai GIS (HV Side)	1	-	1	-	
e	Haveli Kharagpur GIS					
1	220 kV D/C Sekhopur Sarai (BGCL) - Haveli Kharagpur (BGCL) Ckt I	1	-	1	-	1
2	220 kV D/C Sekhopur Sarai (BGCL) - Haveli Kharagpur (BGCL) Ckt II	1	-	1	-	
3	220 kV D/C Haveli Kharagpur (BGCL) - Goradih (BGCL) Ckt I	1	-	1	-	
4	220 kV D/C Haveli Kharagpur (BGCL) - Goradih (BGCL) Ckt II	1	-	1	-	
5	220/132 kV, 160 MVA, ICT - I at Haveli Kharagpur GIS (HV Side)	1	-	1	-	
6	220/132 kV, 160 MVA, ICT - II at Haveli Kharagpur GIS (HV Side)	1	-	1	-	
f	Goradih GIS					
1	220 kV D/C Haveli Kharagpur (BGCL) - Goradih (BGCL) Ckt I	1	-	1	-	1
2	220 kV D/C Haveli Kharagpur (BGCL) - Goradih (BGCL) Ckt II	1	-	1	-	
3	220/132 kV, 160 MVA, ICT - I at Goradih GIS (HV Side)	1	-	1	-	
4	220/132 kV, 160 MVA, ICT - II at Goradih GIS (HV Side)	1	-	1	-	
g	Mokama GIS					
1	220 kV (LILO portion) D/C Mokama (BGCL) - Begusarai (BSPTCL) Ckt I	1	-	1	-	1
2	220 kV (LILO portion) D/C Mokama (BGCL) - Begusarai (BSPTCL) Ckt II	1	-	1	-	
3	220 kV (LILO portion) D/C Mokama (BGCL) - Biharsharif (BSPTCL) Ckt I	1	-	1	-	
4	220 kV (LILO portion) D/C Mokama (BGCL) - Biharsharif (BSPTCL) Ckt II	1	-	1	-	
5	220/132 kV, 160 MVA, ICT - I at Mokama GIS (HV Side)	1	-	1	-	
6	220/132 kV, 160 MVA, ICT - II at Mokama GIS (HV Side)	1	-	1	-	
B	220kV Bay Extn Substation					
1	220 kV D/C Hajipur (BSPTCL) - Amnour (BGCL) Ckt I	1	-	1	-	
2	220 kV D/C Hajipur (BSPTCL) - Amnour (BGCL) Ckt II	1	-	1	-	

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**Details of meter location in different lines, transformers and other bays of BGCL
Phase IV Part 1 project**

Sl. No	Name of Element	ABT Meter Requirement	ABT Meter under current procurem	Additional ABT Meter to be procure	ABT Meter installed /proposed by POWERGRI	Panel Requirement
3	220 kV D/C Hajipur (BSPTCL) - Fatuha (BSPTCL) Ckt I	1	-	1	-	1
4	220 kV D/C Hajipur (BSPTCL) - Fatuha (BSPTCL) Ckt II	1	-	1	-	
5	220/132 kV, 100 MVA, ICT - III at Hajipur GIS Extension (HV Side)	1	-	1	-	
5	220 kV D/C Khizersarai (BGCL) - Gaya (PG) Ckt I	1	-	-	1	1
6	220 kV D/C Khizersarai (BGCL) - Gaya (PG) Ckt II	1	-	-	1	
1	220 kV D/C Patna (PG) – Khagaul (BSPTCL) Ckt I	2	-	-	2	2
2	220 kV D/C Patna (PG) – Khagaul (BSPTCL) Ckt II	2	-	-	2	
C	132kV GIS CRP Room					
a	Amnour GIS					
1	220/132 kV, 160 MVA, ICT - I at Amnour GIS (LV Side)	1	-	1	-	1
2	220/132 kV, 160 MVA, ICT - II at Amnour GIS (LV Side)	1	-	1	-	
3	131 kV D/C Amnour (BGCL) - Chhapra (BSPTCL) Ckt I	1	-	1	-	
4	132 kV D/C Amnour (BGCL) - Chhapra (BSPTCL) Ckt II	1	-	1	-	
5	132 kV D/C Amnour (BGCL) - Siwan (BSPTCL) Ckt I	1	-	1	-	
6	132 kV D/C Amnour (BGCL) - Siwan (BSPTCL) Ckt II	1	-	1	-	
7	132/33 kV, 50 MVA, ICT - I at Amnour GIS (HV Side)	1	-	1	-	
8	132/33 kV, 50 MVA, ICT - II at Amnour GIS (HV Side)	1	-	1	-	
b	Khijirsarai GIS					
1	220/132 kV, 160 MVA, ICT - I at Khijirsarai GIS (LV Side)	1	-	1	-	2
2	220/132 kV, 160 MVA, ICT - II at Khijirsarai GIS (LV Side)	1	-	1	-	
3	132kV D/C Khijirsarai (BGCL) - Jehanabad (BSPTCL) Ckt I	1	-	1	-	
4	132kV D/C Khijirsarai (BGCL) - Jehanabad (BSPTCL) Ckt II	1	-	1	-	
5	132kV (LILO portion) S/C Khijirsarai (BGCL) - Bodhgaya (BSPTCL) Ckt I	1	-	1	-	
6	132kV (LILO portion) S/C Khijirsarai (BGCL) - Wajirganj (BSPTCL) Ckt I	1	-	1	-	
7	132 kV S/C Khizersarai (BGCL) - Hulasganj (BSPTCL) Ckt I	1	-	1	-	
8	132/33 kV, 50 MVA, ICT - I at Khijirsarai GIS (HV Side)	1	-	1	-	
9	132/33 kV, 50 MVA, ICT - II at Khijirsarai GIS (HV Side)	1	-	1	-	
10	132/33 kV, 50 MVA, ICT - III at Khijirsarai GIS (HV Side)	1	-	1	-	
c	Narhat GIS					
1	220/132 kV, 160 MVA, ICT - I at Narhat GIS (LV Side)	1	-	1	-	1
2	220/132 kV, 160 MVA, ICT - II at Narhat GIS (LV Side)	1	-	1	-	
3	132 kV D/C Narhat (BGCL) -Nawada (BSPTCL) Ckt I	1	-	1	-	
4	132 kV D/C Narhat (BGCL) -Nawada (BSPTCL) Ckt II	1	-	1	-	
5	132/33 kV, 50 MVA, ICT - I at Narhat GIS (HV Side)	1	-	1	-	
6	132/33 kV, 50 MVA, ICT - II at Narhat GIS (HV Side)	1	-	1	-	
d	Sheikhopur Sarai GIS					
1	220/132 kV, 160 MVA, ICT - I at Sheikhopur Sarai GIS (LV Side)	1	-	1	-	1
2	220/132 kV, 160 MVA, ICT - II at Sheikhopur Sarai GIS (LV Side)	1	-	1	-	
3	132 kV S/C Sekhopur Sarai (BGCL) - Biharsharif (BSPTCL) Ckt I	1	-	1	-	
4	132 kV D/C Sekhopur Sarai (BGCL) - Sheikhpura (BSPTCL) Ckt I	1	-	1	-	
5	132 kV D/C Sekhopur Sarai (BGCL) - Sheikhpura (BSPTCL) Ckt II	1	-	1	-	
6	132/33 kV, 50 MVA, ICT - I at Sheikhopur Sarai GIS (HV Side)	1	-	1	-	
7	132/33 kV, 50 MVA, ICT - II at Sheikhopur Sarai GIS (HV Side)	1	-	1	-	
e	Haveli Kharagpur GIS					
1	220/132 kV, 160 MVA, ICT - I at Haveli Kharagpur GIS (LV Side)	1	-	1	-	2
2	220/132 kV, 160 MVA, ICT - II at Haveli Kharagpur GIS (LV Side)	1	-	1	-	
3	132 kV (LILo portion) D/C Haveli Kharagpur (BGCL) - Sultanganj Ckt I	1	-	1	-	
4	132 kV (LILo portion) D/C Haveli Kharagpur (BGCL) - Sultanganj Ckt II	1	-	1	-	
5	132 kV (LILo portion) D/C Haveli Kharagpur (BGCL) - Lakhisarai Ckt I	1	-	1	-	
6	132 kV (LILo portion) D/C Haveli Kharagpur (BGCL) - Lakhisarai Ckt II	1	-	1	-	
7	132 kV D/C Haveli Kharagpur (BGCL) - Jamalpur (BSPTCL) Ckt I	1	-	1	-	
8	132 kV D/C Haveli Kharagpur (BGCL) - Jamalpur (BSPTCL) Ckt II	1	-	1	-	
9	132/33 kV, 50 MVA, ICT - I at Haveli Kharagpur GIS (HV Side)	1	-	1	-	

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**Details of meter location in different lines, transformers and other bays of BGCL
Phase IV Part 1 project**

Sl. No	Name of Element	ABT Meter Requirement	ABT Meter under current procurem	Addition al ABT Meter to be procure	ABT Meter installed /proposed by POWERGRI	Panel Requirement
10	132/33 kV, 50 MVA, ICT - II at Haveli Kharagpur GIS (HV Side)	1	-	1	-	
f	Goradih GIS					
1	220/132 kV, 160 MVA, ICT - I at Goradih GIS (LV Side)	1	-	1	-	2
2	220/132 kV, 160 MVA, ICT - II at Goradih GIS (LV Side)	1	-	1	-	
3	132 kV D/C Goradih (BGCL) - Sabour (BSPTCL) Ckt I	1	-	1	-	
4	132 kV D/C Goradih (BGCL) - Sabour (BSPTCL) Ckt II	1	-	1	-	
5	132 kV (LILO portion) D/C Goradih (BGCL) - Sultanganj (BSPTCL) Ckt I	1	-	1	-	
6	132 kV (LILO portion) D/C Goradih (BGCL) - Sultanganj (BSPTCL) Ckt II	1	-	1	-	
7	132 kV (LILO portion) D/C Goradih (BGCL) - Kahalgaon (BSPTCL) Ckt I	1	-	1	-	
8	132 kV (LILO portion) D/C Goradih (BGCL) - Kahalgaon (BSPTCL) Ckt II	1	-	1	-	
9	132/33 kV, 50 MVA, ICT - I at Goradih GIS (HV Side)	1	-	1	-	
10	132/33 kV, 50 MVA, ICT - II at Goradih GIS (HV Side)	1	-	1	-	
g	Mokama GIS					
1	220/132 kV, 160 MVA, ICT - I at Mokama GIS (LV Side)	1	-	1	-	1
2	220/132 kV, 160 MVA, ICT - II at Mokama GIS (LV Side)	1	-	1	-	
3	132 kV D/C Mokama (BGCL) - Hatidah (BSPTCL) Ckt I	1	-	1	-	
4	132 kV D/C Mokama (BGCL) - Hatidah (BSPTCL) Ckt II	1	-	1	-	
5	132/33 kV, 80 MVA, ICT - I at Mokama GIS (HV Side)	1	-	1	-	
6	132/33 kV, 50 MVA, ICT - II at Mokama GIS (HV Side)	1	-	1	-	
D	132kV Bay Extn Substation					
1	131 kV D/C Amnour (BGCL) - Chhapra (BSPTCL) Ckt I	1	-	1	-	1
2	132 kV D/C Amnour (BGCL) - Chhapra (BSPTCL) Ckt II	1	-	1	-	
3	132 kV D/C Amnour (BGCL) - Siwan (BSPTCL) Ckt I	1	-	1	-	1
4	132 kV D/C Amnour (BGCL) - Siwan (BSPTCL) Ckt II	1	-	1	-	
5	132kV D/C Khijirsarai (BGCL) - Jehanabad (BSPTCL) Ckt I	1	-	1	-	1
6	132kV D/C Khijirsarai (BGCL) - Jehanabad (BSPTCL) Ckt II	1	-	1	-	
7	132 kV S/C Khizersarai (BGCL) - Hulasganj (BSPTCL) Ckt I	1	-	1	-	1
8	132 kV D/C Narhat (BGCL) -Nawada (BSPTCL) Ckt I	1	-	1	-	
9	132 kV D/C Narhat (BGCL) -Nawada (BSPTCL) Ckt II	1	-	1	-	1
10	132 kV S/C Sekhopur Sarai (BGCL) - Biharsharif (BSPTCL) Ckt I	1	-	1	-	
11	132 kV D/C Sekhopur Sarai (BGCL) - Sheikhpura (BSPTCL) Ckt I	1	-	1	-	1
12	132 kV D/C Sekhopur Sarai (BGCL) - Sheikhpura (BSPTCL) Ckt II	1	-	1	-	
13	132 kV D/C Haveli Kharagpur (BGCL) - Jamalpur (BSPTCL) Ckt I	1	-	1	-	1
14	132 kV D/C Haveli Kharagpur (BGCL) - Jamalpur (BSPTCL) Ckt II	1	-	1	-	
15	132 kV D/C Goradih (BGCL) - Sabour (BSPTCL) Ckt I	1	-	1	-	1
16	132 kV D/C Goradih (BGCL) - Sabour (BSPTCL) Ckt II	1	-	1	-	
17	132 kV D/C Mokama (BGCL) - Hatidah (BSPTCL) Ckt I	1	-	1	-	1
18	132 kV D/C Mokama (BGCL) - Hatidah (BSPTCL) Ckt II	1	-	1	-	
19	132 kV (LILO portion) one circuit of D/C Bihta New - Khagaul Ckt I	1	-	1	-	1
20	132 kV (LILO portion) one circuit of D/C Bihta New - Digha Ckt I	1	-	1	-	
E	33kV SwitchGear Room					
a	Amnour GIS					
1	132/33 kV, 50 MVA, ICT - I at Amnour GIS (Incomer-I)	1	1	-	-	2
2	132/33 kV, 50 MVA, ICT - II at Amnour GIS (Incomer-II)	1	1	-	-	
3	33 kV Marhaura Feeder-01 at Amnour GIS	1	1	-	-	
4	33 kV Nagra Feeder-02 at Amnour GIS	1	1	-	-	
5	33 kV Maker Feeder-03 at Amnour GIS	1	1	-	-	
6	33 kV Amnour Feeder-04 at Amnour GIS	1	1	-	-	
7	33 kV Bheldi Feeder-05 at Amnour GIS	1	1	-	-	
8	33 kV Feeder-06 at Amnour GIS	1	1	-	-	
9	33 kV Auxiliary Transformer 1 at Amnour GIS	1	1	-	-	
10	33 kV Auxiliary Transformer 2 at Amnour GIS	1	1	-	-	

H. Zindani

**Details of meter location in different lines, transformers and other bays of BGCL
Phase IV Part 1 project**

Sl. No	Name of Element	ABT Meter Requirement	ABT Meter under current procurem	Additional ABT Meter to be procure	ABT Meter installed /proposed by POWERGRI	Panel Requirement
b	Khijirsarai GIS					
1	132/33 kV, 50 MVA, ICT - I at Khijirsarai GIS (Incomer-I)	1	1	-	-	2
2	132/33 kV, 50 MVA, ICT - II at Khijirsarai GIS (Incomer-II)	1	1	-	-	
3	132/33 kV, 50 MVA, ICT - III at Khijirsarai GIS (Incomer-III)	1	1	-	-	
4	33 kV Naugarh Feeder-01 at Khijirsarai GIS	1	1	-	-	
5	33 kV Feeder-02 at Khijirsarai GIS	1	1	-	-	
6	33 kV Feeder-03 at Khijirsarai GIS	1	1	-	-	
7	33 kV Feeder-04 at Khijirsarai GIS	1	1	-	-	
8	33 kV Feeder-05 at Khijirsarai GIS	1	1	-	-	
9	33 kV Feeder-06 at Khijirsarai GIS	1	1	-	-	
10	33 kV Feeder-07 at Khijirsarai GIS	1	1	-	-	
11	33 kV Feeder-08 at Khijirsarai GIS	1	1	-	-	
12	33 kV Atri Feeder-09 at Khijirsarai GIS	1	1	-	-	
13	33 kV Auxiliary Transformer 1 at Khijirsarai GIS	1	1	-	-	
14	33 kV Auxiliary Transformer 2 at Khijirsarai GIS	1	1	-	-	
c	Narhat GIS					
1	132/33 kV, 50 MVA, ICT - I at Narhat GIS (Incomer-I)	1	1	-	-	2
2	132/33 kV, 50 MVA, ICT - II at Narhat GIS (Incomer-II)	1	1	-	-	
3	33 kV Andharwari Feeder-01 at Narhat GIS	1	1	-	-	
4	33 kV Feeder-02 at Narhat GIS	1	1	-	-	
5	33 kV Feeder-03 at Narhat GIS	1	1	-	-	
6	33 kV Feeder-04 at Narhat GIS	1	1	-	-	
7	33 kV Mescor Feeder-05 at Narhat GIS	1	1	-	-	
8	33 kV Narhat Feeder-06 at Narhat GIS	1	1	-	-	
9	33 kV Auxiliary Transformer 1 at Narhat GIS	1	1	-	-	
10	33 kV Auxiliary Transformer 2 at Narhat GIS	1	1	-	-	
d	Sheikhopur Sarai GIS					
1	132/33 kV, 50 MVA, ICT - I at Sheikhopur Sarai GIS (Incomer-I)	1	1	-	-	2
2	132/33 kV, 50 MVA, ICT - II at Sheikhopur Sarai GIS (Incomer-II)	1	1	-	-	
3	33 kV Panchi Feeder-01 at Sheikhopur Sarai GIS	1	1	-	-	
4	33 kV Katri Sarai Feeder-02 at Sheikhopur Sarai GIS	1	1	-	-	
5	33 kV Feeder-03 at Sheikhopur Sarai GIS	1	1	-	-	
6	33 kV Feeder-04 at Sheikhopur Sarai GIS	1	1	-	-	
7	33 kV Feeder-05 at Sheikhopur Sarai GIS	1	1	-	-	
8	33 kV Feeder-06 at Sheikhopur Sarai GIS	1	1	-	-	
9	33 kV Auxiliary Transformer 1 at Sheikhopur Sarai GIS	1	1	-	-	
10	33 kV Auxiliary Transformer 2 at Sheikhopur Sarai GIS	1	1	-	-	
e	Haveli Kharagpur GIS					
1	132/33 kV, 50 MVA, ICT - I at Haveli Kharagpur GIS (Incomer-I)	1	1	-	-	2
2	132/33 kV, 50 MVA, ICT - II at Haveli Kharagpur GIS (Incomer-II)	1	1	-	-	
3	33 kV Kharagpur Feeder-01 at Haveli Kharagpur GIS	1	1	-	-	
4	33 kV Banahara Feeder-02 at Haveli Kharagpur GIS	1	1	-	-	
5	33 kV Pipra Feeder-03 at Haveli Kharagpur GIS	1	1	-	-	
6	33 kV Tatia Bambar Feeder-04 at Haveli Kharagpur GIS	1	1	-	-	
7	33 kV Bageshwari Feeder-05 at Haveli Kharagpur GIS	1	1	-	-	
8	33 kV Feeder-06 at Haveli Kharagpur GIS	1	1	-	-	
9	33 kV Auxiliary Transformer 1 at Haveli Kharagpur GIS	1	1	-	-	
10	33 kV Auxiliary Transformer 2 at Haveli Kharagpur GIS	1	1	-	-	
f	Goradih GIS					
1	132/33 kV, 50 MVA, ICT - I at Goradih GIS	1	1	-	-	2
2	132/33 kV, 50 MVA, ICT - II at Goradih GIS	1	1	-	-	
3	33 kV Sakahra Feeder-01 at Goradih GIS	1	1	-	-	
4	33 kV Feeder-02 at Goradih GIS	1	1	-	-	
5	33 kV Feeder-03 at Goradih GIS	1	1	-	-	

H. P. S. S.

**Details of meter location in different lines, transformers and other bays of BGCL
Phase IV Part 1 project**

Sl. No	Name of Element	ABT Meter Requirement	ABT Meter under current procurem	Additional ABT Meter to be procure	ABT Meter installed /proposed by POWERGRI	Panel Requirement
6	33 kV Feeder-04 at Goradih GIS	1	1	-	-	2
7	33 kV Feeder-05 at Goradih GIS	1	1	-	-	
8	33 kV Feeder-06 at Goradih GIS	1	1	-	-	
9	33 kV Auxiliary Transformer 1 at Goradih GIS	1	1	-	-	
10	33 kV Auxiliary Transformer 2 at Goradih GIS	1	1	-	-	
g Mokama GIS						
1	132/33 kV, 80 MVA, ICT - I at Mokama GIS (Incomer-I)	1	1	-	-	2
2	132/33 kV, 80 MVA, ICT - II at Mokama GIS (Incomer-II)	1	1	-	-	
3	33 kV Feeder-01 at Mokama GIS	1	1	-	-	
4	33 kV Feeder-02 at Mokama GIS	1	1	-	-	
5	33 kV Feeder-03 at Mokama GIS	1	1	-	-	
6	33 kV Feeder-04 at Mokama GIS	1	1	-	-	
7	33 kV Feeder-05 at Mokama GIS	1	1	-	-	
8	33 kV Feeder-06 at Mokama GIS	1	1	-	-	
9	33 kV Auxiliary Transformer 1 at Mokama GIS	1	1	-	-	
10	33 kV Auxiliary Transformer 2 at Mokama GIS	1	1	-	-	
Sub Total		204	74	122	8	44
Spare (Considering approx 10 % of total Quantity)		20	6	14		4
Power Quality feature meters each for 07 GIS name Amnour, Khijirsarai, Narhat, Shkhopur Sarai, Havelli Kharagpur, Gorahdih and Mokama (incl. 03 no. as spare)		10	7	3		0
Total		234	87	139	8	48

H. P. Das

**Details of meter location in different lines, transformers and other bays of
BGCL Phase IV Part 2 Supplementary Project**

SI. No	Name of Element	ABT Meter Requirement	ABT Meter under current procurement	Additional ABT Meter to be procured	ABT Meter installed/proposed by POWERGRID	Panel Requirement
	Part II, Supplementary Project					
A	Amnour GIS					
1	220/132 kV, 160 MVA, ICT - III at Amnour GIS (HV Side)	1	-	1	-	1
2	220/132 kV, 160 MVA, ICT - III at Amnour GIS (LV Side)	1	-	1	-	
	Total	2	-	2	-	1



Type	Transmission element	Expected DOCO	Hard Cost (in Cr.)	IDC (in Cr.)	IEDC (in Cr.)	Soft Cost (In Cr.)	Total Cost (In Cr.)
Phase IV (Part 1)							
Transmission Line	LILO of 220 kV D/C Biharsharif (BSPTCL) - Begusarai (BSPTCL) at Mokama TL						
Transmission Line	LILO Portion 220 kV D/C Line_Mokama (BGCL) - Biharsharif (BSPTCL) Circuit 1	20-09-2020	1.90	0.16	0.13	0.29	2.19
Transmission Line	LILO Portion 220 kV D/C Line_Mokama (BGCL) - Biharsharif (BSPTCL) Circuit 2	20-09-2020	1.90	0.16	0.13	0.29	2.19
Transmission Line	LILO Portion 220 kV D/C Line_Mokama (BGCL) - BTPS (Begusarai) Circuit 1	20-09-2020	1.90	0.16	0.13	0.29	2.19
Transmission Line	LILO Portion 220 kV D/C Line_Mokama (BGCL) - BTPS (Begusarai) Circuit 2	20-09-2020	1.90	0.16	0.13	0.29	2.19
Transmission Line	132 kV D/C Line_Mokama (BGCL) - Hatidah (BSPTCL) Circuit 1	24-09-2020	4.62	0.40	0.31	0.71	5.33
Transmission Line	132 kV D/C Line_Mokama (BGCL) - Hatidah (BSPTCL) Circuit 2	24-09-2020	4.62	0.40	0.31	0.71	5.33
Sub Station	220/132 kV 160 MVA Transformer-2 of GIS, Mokama (Hatidah New)	24-09-2020	7.06	0.54	0.48	1.02	8.08
Sub Station	132/33 kV 80 MVA Transformer-2 of GIS, Mokama (Hatidah New)	01-10-2020	5.06	0.39	0.34	0.73	5.79
Sub Station	GIS - 220 kV / 132 kV / 33kV_Mokama (Hatidah New)	01-10-2020	93.42	8.02	6.35	14.37	107.80
Bay Extension	Hatidah Bay Extension (2 x 132 kV Bay AIS)	24-09-2020	4.52	0.39	0.31	0.70	5.22
Phase IV (Part 2)							
Transmission Line	LILO of 220 kV D/C Ara (PG) - Nadokhar (BSPTCL) at Dumraon New TL						
Transmission Line	LILO Portion 220 kV D/C Line_Ara (PG) - Dumraon New (BGCL) Ckt-I	13-12-2020	6.34	0.48	0.13	0.62	6.95
Transmission Line	LILO Portion 220 kV D/C Line_Ara (PG) - Dumraon New (BGCL) Ckt-II	13-12-2020	6.34	0.48	0.13	0.62	6.95
Transmission Line	LILO Portion 220 kV D/C Line_Nadokhar (BSPTCL) - Dumraon New (BGCL) Ckt-I	13-12-2020	6.34	0.48	0.13	0.62	6.95
Transmission Line	LILO Portion 220 kV D/C Line_Nadokhar (BSPTCL) - Dumraon New (BGCL) Ckt-II	13-12-2020	6.34	0.48	0.13	0.62	6.95
Transmission Line	132 kV D/C Line_Dumraon New (BGCL) - Dumraon (BSPTCL) Ckt-II	10-01-2021	7.79	0.59	0.16	0.76	8.55
Sub Station	GIS - 220 kV / 132 kV / 33kV_Dumraon New	10-01-2021	84.89	6.47	1.78	8.25	93.14
Sub Station	220/132 kV 160 MVA Transformer-1 of GIS, Dumraon New	01-01-2021	6.83	0.52	0.14	0.66	7.50
Sub Station	132/33 kV 80 MVA Transformer-1 of GIS, Dumraon New	10-01-2021	4.74	0.36	0.10	0.46	5.20
Bay Extension	Dumraon Bay Extension (2 x 132 kV Bay AIS)	10-01-2021	5.75	0.44	0.12	0.56	6.31
Total			262.29	21.09	11.47	32.56	294.85

LAXMI AGRAWAL BOSE & CO.
PATNA

BIHAR GRID COMPANY LIMITED

FY - 2020-21

IIND FLOOR, ALANKAR PLACE, BORING ROAD

PATNA - 800001

LAXMI AGRAWAL BOSE & CO.

CHARTERED ACCOUNTANTS

H/o Mr. JUSTICE P. S. SAHAY,
MAURYA LOK, JUSTICE SAHAY ROAD,
PATNA - 800 001, Phone : 2235210

Independent Auditors' Report

To the Members of
BIHAR GRID COMPANY LIMITED

Report on the Financial Statements

We have audited the accompanying standalone financial statements of **Bihar Grid Company Limited** ("the company"), which comprise the balance sheet as at 31st March 2021, and the statement of Profit and Loss, and statement of cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies and other explanatory information.

In our opinion and to the best of our information and according to the explanations given to us, the aforesaid standalone financial statements give the information required by the Act in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India,

- i) in the case of Balance Sheet, of the state of affairs of the Company as at March 31, 2021,
- ii) in the case of Statement for Profit and Loss, of the profit for the year ended on that date, and
- iii) in the case of Cash flow statement, of its cash flows for the year ended on that date.

Basis for Opinion

We conducted our audit in accordance with the Standards on Auditing (SAs) specified under section 143(10) of the Companies Act, 2013. Our responsibilities under those Standards are further described in *the Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are independent of the Company in accordance with the *Code of Ethics* issued by the Institute of Chartered Accountants of India together with the ethical requirements that are relevant to our audit of the financial statements under the provisions of the Companies Act, 2013 and the Rules thereunder, and we have fulfilled our other ethical responsibilities in accordance with these requirements and the Code of Ethics. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

1



Key Audit Matters

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the financial statements of the current period. These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

We have determined the matter described below to be the Key Audit matters to be communicated in our report.

Corporate Social Responsibility

During the year, allocation of fund was made on account of Corporate Social Responsibility amounting to Rs. 173.66 lakhs, whereas application of Rs. 72.52 lakhs could be made during the year.

Audit response

In terms of Para 2.13 to the Note 1 of Accounting Policies for the year 2020-21 to the accompanying standalone financial statements, Transmission income is accounted for based on tariff orders notified by the BERC. The same is subject to adjustment and difference, if any, is accounted for in the year of issuance of final tariff orders by the BERC. The policy is being adopted consistently by the company.

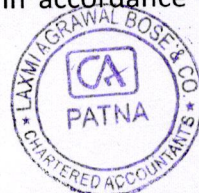
Responsibilities of Management for the Standalone Financial Statements

The Company's Board of Directors is responsible for the matters stated in section 134(5) of the Companies Act, 2013 ("the Act") with respect to the preparation of these standalone financial statements that give a true and fair view of the financial position, financial performance, (changes in equity) and cash flows of the Company in accordance with the accounting principles generally accepted in India, including the accounting Standards specified under section 133 of the Act. This responsibility also includes maintenance of adequate accounting records in accordance with the provisions of the Act for safeguarding of the assets of the Company and for preventing and detecting frauds and other irregularities; selection and application of appropriate accounting policies; making judgments and estimates that are reasonable and prudent; and design, implementation and maintenance of adequate internal financial controls, that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Company or to cease operations, or has no realistic alternative but to do so.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with SAs will always detect a



material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with SAs, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that is appropriate in the circumstances. Under section 143(3)(i) of the Companies Act, 2013, we are also responsible for expressing our opinion on whether the company has adequate internal financial controls system in place and the operating effectiveness of such controls.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.



Report on Other Legal and Regulatory Requirements

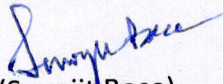
- 1 As required by the Companies (Auditor's Report) Order, 2016 ("the Order"), issued by the Central Government of India in terms of sub-section (11) of section 143 of the Companies Act, 2013, we give in the "Annexure A", a statement on the matters specified in paragraphs 3 and 4 of the Order, to the extent applicable.
- 2 As required by Section 143(3) of the Act, we report that:
 - (a) We have sought and obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purposes of our audit.
 - (b) In our opinion, proper books of account as required by law have been kept by the Company so far as it appears from our examination of those books
 - (c) The Balance Sheet, the Statement of Profit and Loss, and the Cash Flow Statement dealt with by this Report are in agreement with the books of account
 - (d) In our opinion, the aforesaid standalone financial statements comply with the Accounting Standards specified under Section 133 of the Act, read with Rule 7 of the Companies (Accounts) Rules, 2014.
 - (e) On the basis of the written representations received from the directors as on 31st March, 2021 taken on record by the Board of Directors, none of the directors is disqualified as on 31st March, 2021 from being appointed as a director in terms of Section 164 (2) of the Act.
 - (f) With respect to the adequacy of the internal financial controls over financial reporting of the Company and the operating effectiveness of such controls, refer to our separate Report in "Annexure B".
 - (g) With respect to the other matters to be included in the Auditor's Report in accordance with Rule 11 of the Companies (Audit and Auditors) Rules, 2014, in our opinion and to the best of our information and according to the explanations given to us:
 - i. The Company does not have any pending litigations which would impact its financial position.
 - ii. The Company did not have any long-term contracts including derivative contracts for which there were any material foreseeable losses.
 - iii. There were no amounts which were required to be transferred to the Investor Education and Protection Fund by the Company.

For LAXMI AGRAWAL BOSE & Co.
CHARTERED ACCOUNTANTS
Firm Registration No. 4513C

Patna,

Dated: 26.07.2021




(Suvojit Bose)
Partner

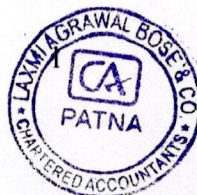
Mem. No. 73032

UDIN : 21073032AAAAHH8090

ANNEXURE 'A' REFERRED TO IN PARAGRAPH 1 OF OUR REPORT OF EVEN DATE OF **BIHAR GRID COMPANY LIMITED** ON THE ACCOUNTS OF THE COMPANY FOR THE YEAR ENDED 31ST MARCH, 2021.

On the basis of such checks as we considered appropriate and according to the information and explanation given to us during the course of our audit, we report that:

- i)
 - a) the company has maintained proper records showing particulars, including quantitative details and situation of fixed assets but the records are yet to be updated.
 - b) We have been informed that the company has carried out physical verification of its fixed assets and no material discrepancies were noticed on such verification. However, no such physical verification report could be made available to us.
 - c) The title deeds of immovable properties are held in the name of the company except that Lands purchased from Government of Bihar for Substation of Naubatpur. The registration of land of these substations is pending with different authorities.
- ii. The Company has maintained inventory for the first time at the year end for its completed projects which is to be utilized for maintaining those projects. However, no physical verification report could be made available to us in respect of such inventory as at the year end.
- iii. The Company has not granted any loans, secured or unsecured to companies, firms, Limited Liability partnerships or other parties covered in the Register maintained under section 189 of the Act. Accordingly, the provisions of clause 3 (iii) (a) to (c) of the Order is not applicable to the Company.
- iv. In our opinion and according to the information and explanations given to us, the Company has complied with the provisions of section 185 and 186 of the Companies Act, 2013 In respect of loans, investments, guarantees, and security.
- v. The Company has not accepted any deposits from the public during the year.
- vi. As informed to us, the maintenance of Cost Records has been specified by the Central Government under sub-section (1) of Section 148 of the Act and the company has duly maintained the prescribed records. The company has appointed Cost Auditor for the year 2018-19, but the report is yet to be received.
- vii.
 - a) As informed to us, the company is generally regular in depositing undisputed statutory dues including Provident fund, Employees' state insurance, Income tax, Sales tax/GST and other material statutory dues, as applicable, with the appropriate authorities in India.
 - b) According to the information and explanations given to us, there were no disputed amounts payable in respect of Income-tax and other taxes, duty etc.
- viii. The Company has availed Term loan from Rural Electrification Corporation Limited and Power Finance Corporation Limited. In our opinion and according to the information and explanations given to us, the Company has not defaulted in the repayment of dues. The Company has not taken any loan from the government and has not issued any debentures.



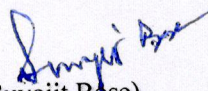
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- ix. The company has raised moneys during the year from issue of equity shares on rights basis and from Term loans from Rural Electrification Corporation Limited and Power Finance Corporation Limited. Based upon the audit procedures performed and the information and explanations given by the management, the amount so raised has been used for the purpose for which the funds were raised.
- x. Based upon the audit procedures performed and the information and explanations given by the management, we report that no fraud by the Company or on the company by its officers or employees has been noticed or reported during the year.
- xi. According to the information and explanations given to us, and based on our examination of the records of the Company, the Company has paid/ provided for managerial remuneration in accordance with requisite approvals, if any.
- xii. In our opinion, the Company is not a Nidhi Company. Therefore, the provisions of Clause 4 (xii) of the Order are not applicable to the Company.
- xiii. In our opinion, all transactions with the related parties are in compliance with section 177 and 188 of Companies Act, 2013 and the details have been disclosed in the Financial Statements as required by the applicable accounting standards.
- xiv. Based upon the audit procedures performed and the information and explanations given by the management, the company has not made any preferential allotment or private placement of shares or debentures during the year under review except issuing equity shares to its existing shareholders on rights basis. The company has complied with the relevant requirements and the provisions of the Companies Act, 2013 in this regard.
- xv. According to the information and explanations given to and based on our examination of the records of the Company, the Company has not entered into non-cash transactions with directors or persons connected with him. Accordingly, paragraph 3(xv) of the Order is not applicable.
- xvi. In our opinion, the company is not required to be registered under section 45 IA of the Reserve Bank of India Act, 1934 and accordingly, the provisions of clause 3 (xvi) of the Order is not applicable to the Company and hence not commented upon.

For LAXMI AGRAWAL BOSE & Co.
CHARTERED ACCOUNTANTS
Firm Registration No. 4513C



Patna,
Dated: 26.07.2021


(Suvojit Bose)
Partner
Mem. No. 73032

UDIN : 21073032AAAAHH8090

Annexure – 'B' to the Auditors' Report

Report on the Internal Financial Controls under Clause (i) of Sub-section 3 of Section 143 of the Companies Act, 2013 ("the Act")

We have audited the internal financial controls over financial reporting of **BIHAR GRID COMPANY LIMITED** as of 31st March, 2021 in conjunction with our audit of the financial statement of the Company for the year ended on that date.

Management's Responsibility for Internal Financial Controls

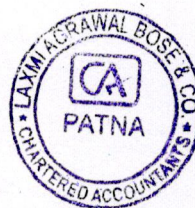
The Company's management is responsible for establishing and maintaining internal financial controls based on the internal control over financial reporting criteria established by the Company considering the essential components of internal control stated in the Guidance Note on Audit of Internal Financial Controls over Financial Reporting issued by the Institute of Chartered Accountants of India. These responsibilities include the design, implementation and maintenance of adequate internal financial controls that were operating effectively for ensuring the orderly and efficient conduct of its business, including adherence to company's policies, the safeguarding of its assets, the prevention and detection of frauds and errors, the accuracy and completeness of the accounting records, and the timely preparation of reliable financial information, as required under the Companies Act, 2013.

Auditors' Responsibility

Our responsibility is to express an opinion on the Company's internal financial controls over financial reporting based on our audit. We conducted our audit in accordance with the Guidance Note on Audit of Internal Financial Controls over Financial Reporting and the Standards on Auditing, issued by the ICAI and deemed to be prescribed under section 143(10) of the Companies Act, 2013, to the extent applicable to an audit of internal financial controls, both applicable to an audit of Internal Financial Controls and, both issued by the ICAI. Those Standards and the Guidance Note require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether adequate internal financial controls over financial reporting was established and maintained and if such controls operated effectively in all material respects.

Our audit involves performing procedures to obtain audit evidence about the adequacy of the internal financial controls system over financial reporting and their operating effectiveness. Our audit of internal financial controls over financial reporting included obtaining an understanding of internal financial controls over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. The procedures selected depend on the auditor's judgment, including the assessment of the risk of material misstatement of the financial statements, whether due to fraud or error.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion on the Company's internal financial controls system over financial reporting.



Meaning of Internal Financial Controls over Financial Reporting

A company's internal financial control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal financial control over financial reporting includes those policies and procedures that

(1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company;

(2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and

(3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

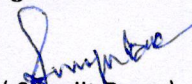
Inherent Limitations of Internal Control Over Financial Reporting

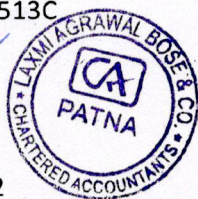
Because of the inherent limitations of internal financial controls over financial reporting, including the possibility of collusion or improper management override of controls, material misstatements due to error or fraud may occur and not be detected. Also projections of any evaluation of the internal financial controls over financial reporting to the future periods are subject to risk that the internal financial control over financial reporting may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Opinion

In our opinion, the company has, in all material respects, an adequate internal financial controls system over financial reporting and such internal financial controls over financial reporting were operating effectively as at 31st March, 2021, based on the internal control over financial reporting criteria established by the company considering the essential components of the internal control stated in the Guidance Note on Audit of Internal Financial Controls over Financial Reporting issued by the Institute of Chartered Accountants of India.

For Laxmi Agrawal Bose & Co.
Chartered Accountants
Firm's Registration No. 4513C


(Suvojit Bose)
Partner



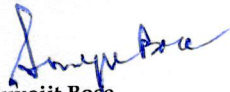
Membership No. 73032
UDIN : 21073032AAAAHH8090
Patna,
26.07.2020

Balance sheet as at 31-March-2021

Particulars	Note	As at 31st March, 2021	As at 31st March, 2020
ASSETS			
Non-Current Assets			
(a) Property, Plant and Equipment	2	1,80,668.08	1,60,505.26
(b) Capital Work-in-Progress	3	83,206.53	81,719.01
(c) Other Intangible Assets	4	124.96	130.86
(d) Intangible Assets under Development	5	16.65	16.65
(e) Other non current assets	6	317.05	452.59
Total Non-Current Assets		2,64,333.27	2,42,824.37
Current Assets			
(a) Inventories	7	169.87	169.87
(b) Financial Assets			
(i) Trade receivables	8	50,630.83	21,011.20
(ii) Cash and Cash Equivalents	9	11,026.40	16,458.98
(c) Other Current Assets	10	5,529.30	1,583.90
Total Current Assets		67,356.39	39,223.95
Total Assets		3,31,689.66	2,82,048.32
EQUITY AND LIABILITIES			
Equity			
(a) Equity Share Capital	11	58,059.39	50,159.11
(b) Other Equity	12	23,513.51	9,330.56
Total Equity		81,572.90	59,489.67
Liabilities			
Non-Current Liabilities			
(a) Financial Liabilities			
(i) Borrowings	13	1,92,671.12	1,68,991.01
(ii) Other Non Current financial Liabilities	14	10,937.18	11,558.78
(b) Deferred Tax Liabilities (net)	15	13,115.92	13,228.06
Total non current Liability		2,16,724.22	1,93,777.85
Current Liabilities			
(a) Financial Liabilities			
(i) Other Current Financial Liabilities	16	15,613.06	14,604.55
(b) Other Current Liabilities	17	13,122.44	13,759.53
(c) Provisions	18	456.90	416.72
(d) Current Tax Liabilities (Net)	19	4,200.13	-
Total Current Liabilities		33,392.54	28,780.80
Total Equity and Liabilities		3,31,689.66	2,82,048.32
Accounting Policies	1		
Other Notes to Financial Statements	27 to 44		

The Notes referred to above form an integral part of financial statements.
As per our report of even date

For Laxmi Agrawal Bose & Co.
Chartered Accountants
Firm Reg. No. : 04513C

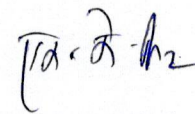

Suvojit Bose
Partner
Membership No.: 73032




Place : Patna
Date : 26.07.2021

For and On behalf of the Board of Directors


Sandeep K.R. Pudakalkatti
Director
DIN-07387571


Mahendra Kumar Singh
Managing Director
DIN-08989333


Niketa Sinha
Co. Secretary


M K Choudhary
CFO

Place : Patna
Date : 26.07.2021



BIHAR GRID COMPANY LIMITED
2nd FLOOR, ALANKAR PLACE, BORING ROAD, PATNA
Statement of Profit and Loss for the year ended 31-March-2021

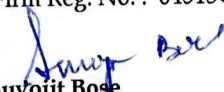
(₹ in Lakh)

	Particulars	Note no.	For the year ended 31st March 2021	For the year ended 31st March 2020
I	Revenue from operations	20	46,020.00	20,784.00
II	Other Income	21	3,297.24	1,926.29
III	Total Income (I+II)		49,317.24	22,710.29
IV	Expenses			
	Employee benefit expenses	22	1,129.02	431.33
	Finance cost	23	16,249.63	8,901.42
	Depreciation and amortisation expense	24	9,554.51	8,587.65
	Other expenses	25	2,814.14	1,204.88
	Total expenses (IV)		29,747.29	19,125.28
V	Profit/(Loss) before exceptional items and tax (III-IV)		19,569.95	3,585.02
VI	Exceptional Items		-	-
VII	Profit/(Loss) before Tax (V-VI)		19,569.95	3,585.02
VIII	Total Tax expense	26	4,088.00	421.76
	(1) Current Tax		4,200.13	-
	(2) Deffered Tax		(112.13)	421.76
IX	Profit (Loss) for the period from Continuing operations		15,481.95	3,163.26
X	(VII-VIII)		-	-
XI	Profit/(Loss) from dis continuing operations		-	-
XII	Tax expense of dis continuing operations		-	-
XIII	Profit/(Loss) from dis continuing operations (after tax) (X-XI)		-	-
XIII	Profit/(Loss) for the period (IX+XII)		15,481.95	3,163.26
XIV	Other Comprehensive income		-	-
XV	Total Comprehensive income for the period(XIII+XIV)		15,481.95	3,163.26
XVI	Earnings per equity share (for continuing operation)			
	(1) Basic		2.86	0.63
	(2) Diluted		2.86	0.63
XVII	Earnings per equity share (for dis continued operation)			
	(1) Basic		-	-
	(2) Diluted		-	-
XVIII	Earnings per equity share (for dis continued & Continuing operations)			
	(1) Basic		2.86	0.63
	(2) Diluted		2.86	0.63
	Accounting Policies	1		
	Other Notes to Financial Statements	27 to 44		

The Notes referred to above form an integral part of financial statements.
As per our report of even date

For Laxmi Agrawal Bose & Co.


Chartered Accountants
Firm Reg. No. : 04513C


Suvojit Bose
Partner
Membership No.: 73032



Place : Patna
Date : 26.07.2021

For and On behalf of the Board of Directors


Sandeep K.R. Pudakalkatti
Director
DIN-07387571


Mahendra Kumar Singh
Managing Director
DIN-08989333


Niketa Sinha
Co. Secretary


M K Choudhary
CFO

Place : Patna
Date : 26.07.2021



BIHAR GRID COMPANY LIMITED
2nd FLOOR, ALANKAR PLACE, BORING ROAD, PATNA
Statement of Profit and Loss for the year ended 31-March-2021

(₹ in Lakh)

	Particulars	Note no.	For the year ended 31st March 2021	For the year ended 31st March 2020
I	Revenue from operations	20	46,020.00	20,784.00
II	Other Income	21	3,297.24	1,926.29
III	Total Income (I+II)		49,317.24	22,710.29
IV	Expenses			
	Employee benefit expenses	22	1,129.02	431.33
	Finance cost	23	16,249.63	8,901.42
	Depreciation and amortisation expense	24	9,554.51	8,587.65
	Other expenses	25	2,814.14	1,204.88
	Total expenses (IV)		29,747.29	19,125.28
V	Profit/(Loss) before exceptional items and tax (III-IV)		19,569.95	3,585.02
VI	Exceptional Items		-	-
VII	Profit/(Loss) before Tax (V-VI)		19,569.95	3,585.02
VIII	Total Tax expense	26	4,088.00	421.76
	(1) Current Tax		4,200.13	-
	(2) Deffered Tax		(112.13)	421.76
IX	Profit (Loss) for the period from Continuing operations (VII-VIII)		15,481.95	3,163.26
X	Profit/(Loss) from dis continuing operations		-	-
XI	Tax expense of dis continuing operations		-	-
XII	Profit/(Loss) from dis continuing operations (after tax) (X-XI)		-	-
XIII	Profit/(Loss) for the period (IX+XII)		15,481.95	3,163.26
XIV	Other Comprehensive income		-	-
XV	Total Comprehensive income for the period(XIII+XIV)		15,481.95	3,163.26
XVI	Earnings per equity share (for continuing operation)			
	(1) Basic		2.86	0.63
	(2) Diluted		2.86	0.63
XVII	Earnings per equity share (for dis continued operation)			
	(1) Basic		-	-
	(2) Diluted		-	-
XVIII	Earnings per equity share (for dis continued & Continuing operations)			
	(1) Basic		2.86	0.63
	(2) Diluted		2.86	0.63
	Accounting Policies	1		
	Other Notes to Financial Statements	27 to 44		

The Notes referred to above form an integral part of financial statements.
As per our report of even date

For Laxmi Agrawal Bose & Co.

Chartered Accountants
Firm Reg. No. : 04513C

Suvojit Bose

Partner

Membership No.: 73032

For and On behalf of the Board of Directors

Sandeep K.R.Pudakalkatti

Director

DIN-07387571

Mahendra Kumar Singh

Managing Director

DIN-08989333



Niketa Sinha

Co. Secretary

M K Choudhary

CFO

Place : Patna

Date : 26.07.2021

Place : Patna

Date : 26.07.2021



BIHAR GRID COMPANY LTD
2nd FLOOR, ALANKAR PLACE, BORING ROAD, PATNA
Cash Flow Statement for the Year ended 31-March-2021

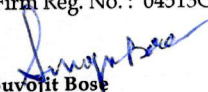
(₹ in Lakh)

PARTICULARS		For the year ended 31-Mar-2021	For the year ended 31-Mar-2020
A.	<u>CASH FLOW FROM OPERATING ACTIVITIES</u>		
	Net Profit/(Loss) as per Profit & Loss A/c	15,481.95	3,163.26
	Depreciation	9,552.03	8,587.59
	Finance Costs	16,249.63	8,901.42
	Interest Received from Bank	(464.34)	(85.01)
	Prior Period Expenses/ Preliminary expenses	-	-
	Operating profit before working capital changes	40,819.26	20,567.26
	Adjustment For Increase/Decrease in:		
	Trade Receivables	(29,619.63)	(2,919.40)
	Other Current Assets	(3,945.39)	(889.54)
	Inventories	-	7.27
	Other Current Liabilities	(637.08)	2,649.64
	Other Current Financial Liabilities	1,008.51	3,628.08
	Deferred Tax Liabilities	(112.13)	421.76
	Short Term Provisions	40.18	87.31
	Current Tax Liabilities	4,200.13	-
	TOTAL	11,753.84	23,552.37
B.	<u>CASH FLOW FROM INVESTING ACTIVITIES</u>		
	Tangible/Intangible Assets	(29,708.95)	(27,158.43)
	Capital Work in Progress	(1,487.52)	(46,013.02)
	Long Term Loans and Advances	135.54	2,809.23
	Interest Received from Bank	464.34	85.01
	TOTAL	(30,596.59)	(70,277.20)
C.	<u>CASH FLOW FROM FINANCING ACTIVITIES</u>		
	Issue of Share Capital / Other Equity	6,601.28	17,120.99
	CSR Expenditure	-	-
	Interest and Finance Costs Paid	(16,249.63)	(8,901.42)
	Other Non Current Financial Liabilities	(621.60)	5,328.10
	Borrowings	23,680.11	48,140.95
	TOTAL	13,410.16	61,688.61
D.	NET INCREASE/(DECREASE) IN CASH FLOW (A+B+C)	(5,432.59)	14,963.78
E.	CASH & CASH EQUIVALENT AT THE BEGINNING OF THE YEAR	16,458.98	1,495.20
F.	CASH & CASH EQUIVALENT AT THE END OF THE YEAR	11,026.40	16,458.98

As per our report of even date

For Laxmi Agrawal Bose & Co.


Chartered Accountants
Firm Reg. No. : 04513C


Suvojit Bose
Partner
Membership No.: 73032




Place : Patna
Date : 26.07.2021

For and On behalf of the Board of Directors


Sandeep K.R. Pudukalkatti
Director
DIN-07387571


Mahendra Kumar Singh
Managing Director
DIN-08989333


Niketa Sinha
Co. Secretary


M K Choudhary
CFO

Place : Patna
Date : 26.07.2021



BIHAR GRID COMPANY LIMITED
2ND FLOOR, ALANKAR PLACE, BORING ROAD, PATNA
Statement of Changes in Equity for the year ended 31-March-2021

A. Equity Share

(₹ in Lakh)

As at 01-April-2020	50,159.11
Changes during the year	7,900.28
As at 31-March-2021	58,059.39
As at 01-April-2019	34,337.12
Changes during the year	15,821.99
As at 31-March-2020	50,159.11

(₹ in Lakh)

B. Other Equity

Particulars	Share application money pending allotment	Reserves and Surplus				Debt instruments through Other Comprehensive Income	Equity instruments through Other Comprehensive Income	Revaluation Surplus	Other items of Other Comprehensive Income	Total
		Capital Reserve	Other Reserve	General Reserve	Retained Earnings					
Balance as at 1st April, 2020	1,299.00	-	-	-	9,330.56	-	-	-	-	10,629.56
Received during the year	-	-	-	-	-	-	-	-	-	-
Profit for The Year	-	-	-	-	15,481.95	-	-	-	-	15,481.95
Total Comprehensive Income for the Year	1,299.00	-	-	-	15,481.95	-	-	-	-	15,481.95
Dividends	-	-	-	-	-	-	-	-	-	-
Share Allotted during the year	(1,299.00)	-	-	-	-	-	-	-	-	(1,299.00)
Balance as at 31st March, 2021	-	-	-	-	24,812.51	-	-	-	-	26,111.51

(₹ in Lakh)

Particulars	Share application money pending allotment	Reserves and Surplus				Debt instruments through Other Comprehensive Income	Equity instruments through Other Comprehensive Income	Revaluation Surplus	Other items of Other Comprehensive Income (specify)	Total
		Capital Reserve	CSR Reserve	General Reserve	Retained Earnings					
Balance as at 1st April, 2019	-	-	-	-	4,868.31	-	-	-	-	4,868.31
Received during the year	1,299.00	-	-	-	-	-	-	-	-	1,299.00
Profit for The Year	-	-	-	-	3,163.26	-	-	-	-	3,163.26
Total Comprehensive Income for the Year	1,299.00	-	-	-	3,163.26	-	-	-	-	4,462.26
Dividends	-	-	-	-	-	-	-	-	-	-
Transfer to Retained Earnings	-	-	-	-	-	-	-	-	-	-
Balance as at 31st March, 2020	1,299.00	-	-	-	8,031.56	-	-	-	-	9,330.56

As per our report of even date

For Laxmi Agrawal Bose & Co.
Chartered Accountants
Firm Reg. No. : 04513C

Suvojit Bose
Partner
Membership No.: 73032



Place : Patna
Date : 26.07.2021

For and On behalf of the Board of Directors

Sandeep K.R. Pudukalkatti
Director
DIN-07387571

Niketa Sinha
Co. Secretary

Place : Patna
Date : 26.07.2021

Mahendra Kumar Singh
Managing Director
DIN-08989333

M K Choudhary
CFO



BIHAR GRID COMPANY LIMITED

NOTE 1 - ACCOUNTING POLICIES FOR THE FINANCIAL YEAR ENDED 31-MARCH-2021.

1. Corporate and General Information

Bihar Grid Company Limited was incorporated on 04/01/2013 (CIN : U40100BR2013PLC019722) ("the Company") is a public company domiciled and incorporated in India under the provisions of Companies Act, 2013. The registered office of the Company is situated at Alankar Place, 2nd Floor, Boring Road, Patna 800 001. The Company is a joint venture between Bihar State Power (Holding) Company Ltd and Power Grid Corporation of India Ltd. It is principally engaged to build (construct), own, operate and Maintain (BOOM) intra-state transmission lines, substations and associated installations.

2. Significant Accounting Policies

2.1 Basis of Preparation

i) Compliance with Ind AS.

The financial statements are prepared in accordance with Indian Accounting Standards (Ind AS) notified under Section 133 of the Companies Act, 2013 (the Act), Companies (Indian Accounting Standards) Rules, 2015 and the relevant provisions of the Companies Act, 2013 (to the extent notified), and the provisions of the Electricity Act, 2003 to the extent applicable and as amended thereafter.

ii) Basis of Measurement.

The financial statements have been prepared on accrual basis and under the historical cost convention except Other Non Current Financial Liabilities which have been measured at fair value.

iii) Functional and presentation currency

The financial statements are presented in Indian Rupees (Rupees or ₹), which is the Company's functional and presentation currency and all amounts are rounded to the nearest rupees except as stated otherwise.

iv) Use of estimates

The preparation of financial statements requires estimates and assumptions that affect the reported amount of assets, liabilities, revenue and expenses during the reporting period. Although, such estimates and assumptions are made on a reasonable and prudent basis taking into account all available information, actual results could differ from these estimates. The estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognised in the period in which the estimate is revised if the revision effects only that period or in the period of the revision and future periods if the revision affects both current and future years.

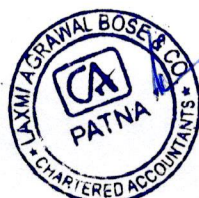
v) Current and Non-Current Classification

The Company presents assets and liabilities in the Balance Sheet based on current/non-current classification.

An asset is current when it is:

- Expected to be realized or intended to be sold or consumed in normal operation cycle.
- Held primarily for the purpose of trading.
- Expected to be realized within twelve months after the reporting period, or
- Cash or Cash equivalent unless restricted from being exchanged or used to settle a liability for at least twelve months after the reporting period.

All other assets are classified as non-current.



A liability is current when:

- It is expected to be settled in normal operating cycle.
- It is Held primarily for the purpose of trading.
- It is due to be settled within twelve months after the reporting period, or
- There is no unconditional right to defer settlement of the liability for at least twelve months after the reporting period.

All other liabilities are classified as non-current.

Deferred tax assets / liabilities are classified as non-current.

The Company recognizes twelve months' period as its operating cycle.

2.2 Property, Plant and Equipment

The Company had opted to consider the carrying value of Property, Plant and Equipment as per previous GAAP on the date of transition to Ind AS (1st April,2015) to be the deemed cost as per Ind AS 101 "First time Adoption of Indian Accounting Standards".

Initial Recognition and Measurement

Property, Plant and Equipment is initially measured at cost of acquisition/construction including any costs directly attributable to bringing the asset to the location and condition necessary for it to be capable of operating in the manner intended by management. After initial recognition, Property, Plant and Equipment is carried at cost less accumulated depreciation/amortization and accumulated impairment losses, if any.

Property, Plant and Equipment acquired as replacement of the existing assets are capitalized and its corresponding replaced assets removed/ retired from active use are derecognized.

If the cost of the replaced part or earlier inspection is not available, the estimated cost of similar new parts/inspection is used as an indication of what the cost of the existing part/ inspection component was when the item was acquired or inspection was carried out.

In the case of commissioned assets, deposit works/cost-plus contracts where final settlement of bills with contractors is yet to be effected, capitalization is done on provisional basis subject to necessary adjustments in the year of final settlement.

Assets and systems common to more than one transmission system are capitalized on the basis of technical estimates/ assessments.

Transmission system assets are considered as ready for intended use from the date of commercial operation declared in terms of BERC Tariff Regulations and capitalized accordingly.

The cost of land includes provisional deposits, payments/liabilities towards compensation, rehabilitation and other expenses wherever possession of land is taken.

Expenditure on leveling, clearing and grading of land is capitalized as part of cost of the related buildings.

Spares parts whose cost is Rs.5,00,000/- and above, standby equipment and servicing equipment which meets the recognition criteria of Property, Plant and Equipment are capitalized.

The acquisition or construction of some items of property, plant and equipment although not directly increasing the future economic benefits of any particular existing item of property, plant and equipment, may be necessary for the company to obtain future economic benefits from its other assets. Such items are recognized as property, plant and equipment.



Subsequent costs

Subsequent expenditure is recognized as an increase in carrying amount of assets when it is probable that future economic benefits deriving from the cost incurred will flow to the company and cost of the item can be measured reliably.

The cost of replacing part of an item of PPE is recognized in the carrying amount of the item if it is probable that future economic benefit embodied within the part will flow to the company and its cost can be measured reliably. The carrying amount of replaced part is derecognized. The costs of the day-to-day servicing of Property, Plant and Equipment are recognized in the Statement of Profit & Loss as incurred.

De-recognition

An item of Property, Plant and Equipment is derecognized when no future economic benefits are expected from their use or upon disposal.

The gain or loss arising on the disposal or retirement of an item of property, plant and equipment is determined as the difference between the net disposal proceeds and the carrying amount of the asset and is recognized in the Statement of Profit and Loss on the date of disposal or retirement.

2.3 Capital Work-In-Progress (CWIP)

Cost of material, erection charges and other expenses incurred for the construction of Property, Plant and Equipment are shown as CWIP based on progress of erection work till the date of capitalization.

Expenditure of Corporate office, and Projects, attributable to construction of property, plant and equipment are identified and allocated on a systematic basis to the cost of the related assets.

Interest during construction and expenditure (net) allocated to construction as per policy above are kept as a separate item under CWIP and apportioned to the assets being capitalized in proportion to the closing balance of CWIP.

Deposit works/cost-plus contracts are accounted for on the basis of statement received from the contractors or technical assessment of work completed.

Unsettled liability for price variation/exchange rate variation in case of contracts is accounted for on estimated basis as per terms of the contracts.

2.4 Intangible Assets and Intangible Assets under development

The Company had opted to consider the carrying value of Intangible Assets as per previous GAAP on the date of transition to Ind AS (1st April, 2015) to be the deemed cost as per Ind AS 101 "First time Adoption of Indian Accounting Standards".

Intangible assets are measured on initial recognition at cost. After initial recognition, intangible assets are carried at cost less any accumulated amortisation and accumulated impairment losses.

Subsequent expenditure on already capitalized Intangible assets is capitalized when it increases the future economic benefits embodied in an existing asset and is amortized prospectively.

The cost of software (which is not an integral part of the related hardware) acquired for internal use and resulting in significant future economic benefits is recognized as an intangible asset when the same is ready for its use.

Afforestation charges for acquiring right-of-way for laying transmission lines are accounted for as intangible assets on the date of capitalization of related transmission lines.



Expenditure incurred, eligible for capitalization under the head Intangible Assets, are carried as "Intangible Assets under Development" till such assets are ready for their intended use.

Expenditure on research shall be recognized as an expense when it is incurred.

Expenditure on development shall be recognized as intangible asset if it meets the eligibility criteria as per Ind AS 38 'Intangible Assets', otherwise it shall be recognized as an expense.

An item of Intangible asset is derecognised upon disposal or when no future economic benefits are expected from its use or disposal. Gains or losses arising from derecognition of an intangible asset are measured as the difference between the net disposal proceeds and the carrying amount of the asset and are recognised in the Statement of Profit and Loss when the asset is derecognized.

2.5 Depreciation / Amortization.

Property, Plant & Equipment.

Depreciation/amortization on the assets related to transmission business is provided on straight line method following the rates and methodology notified by the CERC for the purpose of recovery of tariff, except for assets specified in following paragraphs:

Depreciation on following assets is provided based on estimated useful life as per technical assessment.

Particulars	Useful life
a. Computers & Peripherals	3 years
b. Servers & Network Components	5 years

Residual value of above assets is considered as Nil.

Cost of software capitalized as intangible asset is amortized over the period of legal right to use or 3 years, whichever is less with nil residual value.

Mobile phones are charged off in the year of purchase.

Afforestation charges are amortized over thirty-five years from the date of capitalization of related transmission assets following the rates and methodology notified by Central Electricity Regulatory Commission (CERC) Tariff Regulations.

Depreciation/ Amortization on additions to/deductions from property, plant and equipment during the year is charged on pro-rata basis from/up to the date on which the asset is available for use/disposed.

Where the cost of depreciable property, plant and equipment has undergone a change due to increase/decrease in long term monetary items on account of exchange rate fluctuation, price adjustment, change in duties or similar factors, the unamortized balance of such asset is depreciated prospectively at the rates and methodology as specified by the CERC Tariff Regulations.

Depreciation on spares parts, standby equipment and servicing equipment which are capitalized, is provided on straight line method from the date they are available for use over the remaining useful life of the related assets of transmission business, following the rates and methodology notified by the CERC.

Fixed Assets costing ₹ 5,000/- or less, are fully depreciated in the year of acquisition.



Leasehold land is fully amortized over lease period or life of the related plant whichever is lower in accordance with the rates and methodology specified in CERC Tariff Regulation. Leasehold land acquired on perpetual lease is not amortized.

The amortization period and the amortization method for an intangible asset are reviewed at each financial year end and are accounted for as change in accounting estimates in accordance with Ind. AS.

2.6 Borrowing Costs

Borrowing costs directly attributable to the acquisition or construction of qualifying assets are capitalized (net of income on temporarily deployment of funds) as part of the cost of such assets till the assets are ready for the intended use. Qualifying assets are assets which take a substantial period of time to get ready for their intended use.

Other borrowing costs are charged to revenue.

All the borrowed funds (except short term funds for working capital) are earmarked to specific projects. The borrowing costs (including bond issue expenses, interest, discount on bonds, front end fee, commitment charges, guarantee fee, management fee etc.) are allocated to the projects in proportion to the funds so earmarked.

2.7 Cash and cash equivalents

Cash and cash equivalents include cash on hand and at bank, and deposits held at call with banks having a maturity of three months or less from the date of acquisition that are readily convertible to a known amount of cash and are subject to an insignificant risk of changes in value.

2.8 Inventories

Inventories are valued at lower of the cost, determined on physical verification, weighted average basis and net realizable value.

Steel scrap and conductor scrap are valued at estimated realizable value or book value, whichever is less.

Spares which do not meet the recognition criteria as Property, Plant and Equipment, including spare parts whose cost is less than ₹5,00,000/- are recorded as inventories.

Surplus materials as determined by the management are held for intended use and are included in the inventory.

The diminution in the value of obsolete, unserviceable and surplus stores and spares is ascertained on review and provided for.

2.9 Employee benefits

Company contribution paid/payable during the year to defined pension contribution scheme and provident fund scheme is recognized in the Statement of Profit and Loss. The same is paid to a fund and administered through a separate trust and EPFO.

The liability for Gratuity, ascertained annually at the year end, is provided and funded separately.

The liabilities for compensated absences, leave encashment, post-retirement medical benefits, settlement allowance and long service awards to employees are ascertained annually at the year end and provided for.

Short term employee benefits are recognized at the undiscounted amount in the Statement of Profit and Loss in the year in which the related services are rendered.

A liability is recognized for the amount expected to be paid under performance related pay if the Company has a present legal or constructive obligation to pay this amount as a result of past service provided by the employee and the obligation can be estimated reliably.



2.10 Financial instruments

Financial Assets

Financial assets of the Company comprise cash and cash equivalents, bank balances, trade receivables, loans and advances to employees, security deposit, claims recoverable etc.

Initial recognition and measurement

The company measures the trade receivables, loans and advances to employees, security deposit and cash & cash equivalent at their transaction price, since they do not contain a significant financing component.

De-recognition of financial assets

A financial asset is derecognized only when

- The Company has transferred the rights to receive cash flows from the financial asset or
- retains the contractual rights to receive the cash flows of the financial assets, but assumes a contractual obligation to pay the cash flows to one or more recipients.

Financial Liabilities

Financial liabilities of the Company are contractual obligation to deliver cash or another financial asset to another entity or to exchange financial assets or financial liabilities with another entity under conditions that are potentially unfavorable to the Company.

The Company's financial liabilities include loans & borrowings, trade and other payables.

Classification, initial recognition and measurement

Financial liabilities are recognised initially at fair value minus, in the case of financial liabilities not recorded at fair value through profit or loss, transaction costs that are directly attributable to the issue of financial liabilities.

De-recognition of financial liability

A financial liability is derecognised when the obligation under the liability is discharged or cancelled or expires. The difference between the carrying amount of a financial liability that has been extinguished or transferred to another party and the consideration paid, including any non-cash assets transferred or liabilities assumed, is recognised in Statement of profit and loss as other income or finance cost.

2.11 Foreign Currency Translation

(a) Functional and presentation currency

Items included in the financial statements of the Company are measured using the currency of the primary economic environment in which the Company operates ('the functional currency'). The financial statements are presented in Indian Rupees (Rupees or ₹), which is the Company's functional and presentation currency.

(b) Transactions and balances

Transactions in foreign currencies are initially recorded at the exchange rates prevailing on the date of the transaction. Foreign currency monetary items are translated with reference to the rates of exchange ruling on the date of the balance sheet. Non-monetary items denominated in foreign currency are reported at the exchange rate ruling on the date of transaction.



2.12 Income Tax

Income tax expense represents the sum of current and deferred tax. Tax is recognised in the Statement of Profit and Loss, except to the extent that it relates to items recognised directly in equity or other comprehensive income. In this case the tax is also recognised directly in equity or in other comprehensive income.

Current income tax

The current tax is based on taxable profit for the year under the Income Tax Act, 1961.

Deferred tax

Deferred tax is recognised on temporary differences between the carrying amounts of assets and liabilities in the company's financial statements and the corresponding tax bases used in the computation of taxable profit and is accounted for using the balance sheet liability method. Deferred tax assets are generally recognised for all deductible temporary differences, unused tax losses and unused tax credits to the extent that it is probable that future taxable profits will be available against which those deductible temporary differences, unused tax losses and unused tax credits can be utilised. The carrying amount of deferred tax assets is reviewed at each balance sheet date and reduced to the extent that it is no longer probable that sufficient taxable profits will be available against which the temporary differences can be utilised.

Deferred tax assets and liabilities are measured at the tax rates that are expected to apply in the period in which the liability is settled or the asset realised, based on tax rates (and tax laws) that have been enacted or substantively enacted by the balance sheet date.

2.13 Revenue Recognition and Other Income

Revenue is measured at the fair value of the consideration received or receivable. Amounts disclosed as revenue are net of returns, trade allowances, rebates and value added taxes.

Transmission Income is accounted for based on tariff orders notified by the BERC. In case of transmission projects where final tariff orders are yet to be notified, transmission income is accounted for as per tariff regulations and orders of the BERC in similar cases. Difference, if any, is accounted on issuance of final tariff orders by the BERC. Transmission Income in respect of additional capital expenditure incurred after the date of commercial operation is accounted for based on actual expenditure incurred on year to year basis as per BERC tariff regulations.

The Transmission system incentive / disincentive is accounted for based on certification of availability by the respective Regional Power Committees and in accordance with the BERC tariff regulations. At each reporting date, transmission income includes an accrual for services rendered to the customers but not billed.

Interest income is recognized, when no significant uncertainty as to measurability or collectability exists, on a time proportion basis taking into account outstanding and the applicable interest rate, using the effective interest rate method.

Surcharge recoverable from trade receivables, liquidated damages, warranty claims and interest on advances to suppliers are recognized when no significant uncertainty as to measurability and collectability exists.

Scrap other than steel scrap & conductor scrap are accounted for as and when sold.

2.14 Government Grants

Grants-in-aid received from Central/State Government or other authorities towards capital expenditure for projects, betterment of transmission systems and specific depreciable assets are



treated as deferred income and recognized in the Statement of Profit and Loss over the useful life of related asset in proportion to which depreciation on these assets is provided.

2.15 Dividends

Annual dividend distribution to the shareholders is recognised as a liability in the period in which the dividends are approved by the shareholders. Any interim dividend paid is recognised on approval by Board of Directors. Dividend payable and corresponding tax on dividend distribution is recognised directly in equity.

2.16 Provisions and Contingencies

a) Provisions

Provisions are recognised when the Company has a present obligation (legal or constructive) as a result of a past event, it is probable that an outflow of resources embodying economic benefits will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation. If the effect of the time value of money is material, provisions are discounted. Unwinding of the discount is recognised in the Statement of Profit and Loss as a finance cost. Provisions are reviewed at each balance sheet date and are adjusted to reflect the current best estimate.

b) Contingencies

Contingent liabilities are disclosed when there is a possible obligation arising from past events, the existence of which will be confirmed only by the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of the Company or a present obligation that arises from past events where it is either not probable that an outflow of resources will be required to settle or a reliable estimate of the amount cannot be made. Information on contingent liability is disclosed in the Notes to the Financial Statements. Contingent assets are not recognised.

2.17 Prior Period Items

Material prior period errors are corrected retrospectively by restating the comparative amounts for prior period presented in which the error occurred or if the error occurred before the earliest period presented, by restating the opening statement of financial position.

2.18 Earnings per Share

Basic earnings per share is computed using the net profit or loss for the year attributable to the shareholders and weighted average number of shares outstanding during the year.

Diluted earnings per share is computed using the net profit for the year attributable to the shareholders and number of equity and potential equity shares outstanding at the year end, except where the result would be anti-dilutive.

Additionally, basic and diluted earnings per share are computed using the earnings amounts excluding the movements in regulatory deferral account balances.

2.19 Cash Flow Statement

Cash flow statement is prepared as per indirect method prescribed in the relevant accounting standard.



BIHAR GRID COMPANY LIMITED
NOTE 2 - PROPERTY, PLANT & EQUIPMENT

(₹ in Lakhs)

SL NO.	Particulars	COST			ACCUMULATED DEPRECIATION			NET BOOK VALUE		
		As at 1st April, 2020	Additions during the year	Adjustment during the year	As at 31st March 2021	For the year	Adjustment during the year	As at 31st March 2021	As at 31st March 2020	
1	Land									
	a) Freehold Land	657.06	-	-	657.06	-	-	657.06	657.06	
	b) Leasehold Land (perpetual)	5,152.68	-	-	5,152.68	-	-	5,152.68	5,152.68	
2	Buildings									
	a) Building & civil work	10,307.80	2,623.29	-	12,931.09	386.79	-	11,789.65	9,553.14	
3	Plant and Machinery									
	a) Transmissions	86,916.38	5,580.63	-	92,497.01	4,697.24	-	79,450.69	78,567.31	
	b) Sub-stations	74,526.76	21,280.90	-	95,807.66	4,392.12	-	82,907.75	66,018.98	
4	Furniture and Fixtures									
	a) Furniture	153.20	37.35	-	190.74	10.78	-	167.21	140.44	
	b) Electrical installation	10.32	4.46	-	14.78	1.36	-	12.67	8.96	
5	Office Equipment									
	a) Office equipment	51.81	0.71	-	52.52	3.30	-	38.38	40.97	
	b) Electronic data processing machine	76.17	2.96	-	75.88	21.03	2.47	28.23	47.08	
	c) Servers & network component	13.33	21.44	-	34.77	4.96	-	22.42	5.94	
	d) Servicing equipment	333.77	154.34	-	488.11	25.71	-	441.33	312.70	
	SUB-TOTAL	1,78,199.27	29,706.27	3.25	2,07,902.29	9,542.68	2.47	1,80,666.08	1,60,505.26	

SL NO.	Particulars	COST			ACCUMULATED DEPRECIATION			NET BOOK VALUE		
		As at 1st April, 2019	Additions during the year	Adjustment during the year	As at 31st March 2020	For the year	Adjustment during the year	As at 31st March 2020	As at 31st March 2019	
1	Land									
	a) Freehold Land	657.06	-	-	657.06	-	-	657.06	657.06	
	b) Leasehold Land (perpetual)	4,766.59	386.09	-	5,152.68	-	-	4,766.59	4,766.59	
2	Buildings									
	a) Building & civil work	9,555.94	751.86	-	10,307.80	335.69	-	9,553.14	9,136.97	
3	Plant and Machinery									
	a) Transmissions	67,928.93	18,987.45	-	86,916.38	4,998.12	-	8,349.07	63,977.98	
	b) Sub-stations	67,701.03	6,825.73	-	74,526.76	3,788.45	-	8,507.78	62,981.70	
4	Furniture and Fixtures									
	a) Furniture	122.62	30.58	-	153.20	9.20	-	127.75	119.06	
	b) Electrical installation	5.05	5.27	-	10.32	0.55	-	8.96	4.25	
5	Office Equipment									
	a) Office equipment	6.06	45.76	-	51.81	9.78	-	10.84	40.97	
	b) Electronic data processing machine	29.34	47.77	0.94	76.17	12.63	0.06	29.09	47.08	
	c) Servers & network component	13.33	-	-	13.33	2.67	-	7.39	5.94	
	d) Servicing equipment	254.90	78.86	-	333.77	18.77	-	21.07	312.70	
	SUB-TOTAL	1,51,040.84	27,159.37	0.94	1,78,199.27	8,575.87	0.06	1,60,505.26	1,41,922.64	



BIHAR GRID COMPANY LIMITED
NOTE 3 - Capital Work-in-Progress

Particulars	(₹ in Lakhs)					
	As at 01.04.2020	Additions during the year	Adjustments	Reallocated	Capitalised during the year	As at 31.03.2021
Part-2						
Crop Compensation	1,051.59	1,974.55	-	-	145.90	1,828.66
CWIP- IDC	2,480.64	4,144.98	-	-	1,123.33	3,021.68
CWIP - Transformers.	1,867.04	9,076.70	-	-	1,157.59	7,919.13
Tree Compensation	6.89	26.29	-	-	2.82	23.47
CWIP - Insulators	154.13	546.84	-	-	71.12	475.73
CWIP- Ind AS	(196.07)	(323.70)	-	-	-	(323.70)
CWIP - Conductors & EW	3,114.30	6,003.12	-	-	1,120.79	4,882.36
CWIP - IEDC.	6,160.31	6,881.43	-	-	366.73	6,514.76
CWIP-Substation/Bays	12,994.57	32,406.65	-	-	9,064.60	23,342.18
CWIP -Towers	10,807.67	15,859.34	-	-	1,974.08	13,885.37
Part-1						
Crop Compensation	616.73	775.81	-	-	76.48	699.34
CWIP - Conductors & EW	1,143.58	1,143.57	-	-	252.37	891.21
CWIP - IDC.	4,755.84	6,635.45	-	-	985.38	5,650.12
CWIP - IEDC.	798.01	1,052.60	-	-	780.59	272.02
CWIP - Ind AS	(134.98)	(95.29)	-	-	-	(95.30)
CWIP - Insulators	247.08	247.08	-	-	76.80	170.27
CWIP-Substation/Bays	587.78	9,822.12	-	-	9,794.55	27.57
CWIP -Towers	1,401.37	1,509.79	-	-	1,279.03	230.77
CWIP -Transformers	-	1,217.84	-	-	1,212.64	5.20
Tree Compensation	11.03	13.04	-	-	-	13.04
	47,867.51	98,918.22	-	-	29,484.81	69,433.88
Part-2						
Constn.Stores with Contractors-Station Materials	20,458.88	-	(6,667.02)	-	-	6,667.23
Constn.Stores with Contractors- Towers	3,154.71	-	(121.12)	-	-	121.16
Const. Stores - In Transit	-	1,150.24	-	-	-	1,150.24
Const.Stores With Contractors-Conductors&EW	3,490.42	-	(2,546.08)	-	-	2,546.12
Const.Stores With Contractors - Insulators.	440.87	-	(203.64)	-	-	203.65
Const. Stores with Contractors-Transformers	3,384.84	-	(1,336.84)	-	-	1,336.87
Part-1						
Constn.Stores with Contractors-Station Materials	1,848.17	-	(2.99)	-	-	3.01
Constn.Stores with Contractors- Towers	493.30	140.02	-	-	-	633.32
Const. Stores - In Transit.	-	-	-	-	-	-
Const.Stores With Contractors-Conductors&EW	370.37	405.31	-	-	-	775.68
Const.Stores With Contractors - Insulators.	209.93	125.44	-	-	-	335.37
Const. Stores with Contractors-Transformers	-	-	-	-	-	-
Total	33,851.50	1,821.01	(10,877.70)	-	-	13,772.64
	81,719.01	1,00,739.23	(10,877.70)	-	29,484.81	83,206.53



NOTE 3 - Capital Work-in-Progress

(₹ in Lakh)

Particulars	As at 01.04.2019	Additions during the year	Adjustments	Reallocated	Capitalised during the year	As at 31.03.2020
Part-2						
Crop Compensation	209.85	952.80	-	111.06	-	1,051.59
CWIP - IDC	378.40	2,440.80	-	338.56	-	2,480.64
CWIP - Transformers	-	2,100.06	-	233.02	-	1,867.04
Tree Compensation	-	29.19	-	22.31	-	6.89
CWIP - Insulators	-	154.13	-	-	-	154.13
CWIP - Ind AS	-	(196.07)	-	-	-	(196.07)
CWIP - Conductors & EW	-	3,114.30	-	-	-	3,114.30
CWIP - IEDC	3,698.94	2,761.50	-	300.13	-	6,160.31
CWIP-Substation/Bays	1,306.08	11,774.32	-	85.83	-	12,994.57
CWIP -Towers	1,789.04	9,398.14	-	379.50	-	10,807.67
Part-1						
Crop Compensation	749.91	348.41	-	-	481.60	616.73
CWIP - Conductors & EW	6,131.40	3,681.73	-	-	8,669.55	1,143.58
CWIP - IDC	2,433.78	4,252.62	-	-	1,930.56	4,755.84
CWIP - IEDC	2,097.02	267.22	-	-	1,566.22	798.01
CWIP - Ind AS	(488.83)	353.84	-	-	-	(134.98)
CWIP - Insulators	300.88	342.51	-	-	396.32	247.08
CWIP-Substation/Bays	1,865.66	2,514.84	-	-	3,792.72	587.78
CWIP -Towers	6,592.50	1,628.59	-	-	6,819.72	1,401.37
CWIP-Transformers	-	2,764.67	-	-	2,764.67	-
Tree Compensation	81.82	37.28	-	-	108.07	11.03
	27,146.47	48,720.87	-	1,470.40	26,529.42	47,867.51
Part-2						
Constn.Stores with Contractors-Station Materials	528.83	20,233.25	-	303.20	-	20,458.88
Constn.Stores with Contractors- Towers	1,974.85	1,963.01	-	783.15	-	3,154.71
Const. Stores - In Transit	627.23	-	627.23	-	-	-
Const.Stores With Contractors-Conductors&EW	2,296.35	1,794.05	-	599.98	-	3,490.42
Const.Stores With Contractors - Insulators.	12.47	456.64	-	28.24	-	440.87
Const. Stores with Contractors-Transformers	606.57	4,645.31	-	1,867.04	-	3,384.84
Part-1						
Constn.Stores with Contractors-Station Materials	1,352.97	3,199.67	2,704.47	-	-	1,848.17
Constn.Stores with Contractors- Towers	61.77	4,092.10	3,660.57	-	-	493.30
Const. Stores - In Transit	198.13	-	198.13	-	-	-
Const.Stores With Contractors-Conductors&EW	703.40	7,628.84	7,961.87	-	-	370.37
Const.Stores With Contractors - Insulators.	196.99	381.02	368.08	-	-	209.93
Const. Stores with Contractors-Transformers	-	645.24	645.24	-	-	-
	8,559.54	45,039.14	16,165.58	3,581.60	-	33,851.50
Total	35,706.01	93,760.01	16,165.58	5,052.00	26,529.42	81,719.01



BIHAR GRID COMPANY LIMITED
NOTE 4 - OTHER INTANGIBLE ASSETS

SL NO.	Particulars	COST			ACCUMULATED AMORTISATION			NET BOOK VALUE				
		As at 1st April, 2020	Additions during the year	Disposal	Adjustment during the year	As at 31st March 2021	As at 1st April, 2020	Additions during the year	Disposal	Adjustment during the year	As at 31st March 2021	As at 31st March 2020
1	EDP Software	13.45	0.23	-	-	13.69	6.60	4.49	-	11.09	2.60	6.85
2	Right of Way- Afforestation Expenses	137.62	5.69	-	-	143.32	13.62	7.33	-	20.95	122.36	124.00
	SUB-TOTAL	151.08	5.93	-	-	157.00	20.22	11.83	-	32.04	124.96	130.86

SL NO.	Particulars	COST			ACCUMULATED AMORTISATION			NET BOOK VALUE				
		As at 1st April, 2019	Additions during the year	Disposal	Adjustment during the year	As at 31st March 2020	As at 1st April, 2019	Additions during the year	Disposal	Adjustment during the year	As at 31st March 2020	As at 31st March 2019
1	EDP Software	13.45	-	-	-	13.45	2.10	4.50	-	6.60	6.85	11.35
2	Right of Way- Afforestation Expenses	137.62	-	-	-	137.62	6.33	7.29	-	13.62	124.00	131.29
	SUB-TOTAL	151.08	-	-	-	151.08	8.44	11.78	-	20.22	130.86	142.64

NOTE 5 - INTANGIBLE ASSETS UNDER DEVELOPMENT

Particulars	As at 01.04.2020			As at 31.03.2021		
	As at 01.04.2020	Additions during the year	Capitalised during the year	As at 31.03.2021	Adjustments	Capitalised during the year
1 Right of Way- Afforestation Expenses	16.65	-	-	16.65	-	-
	16.65	-	-	16.65	-	16.65

Particulars	As at 01.04.2019			As at 31.03.2020		
	As at 01.04.2019	Additions during the year	Capitalised during the year	As at 31.03.2020	Adjustments	Capitalised during the year
1 Right of Way- Afforestation Expenses	16.64	0.01	-	16.65	-	-
	16.64	0.01	-	16.65	-	16.65



BIHAR GRID COMPANY LIMITED

NOTE 6 - Other Non-current Assets

(₹ in Lakh)

Particulars	as at 31-Mar-2021	as at 31-Mar-2020
Secured against Bank Guarantee:		
Advance to Shandong Taikai HV S.Gear Co.Ltd.	118.34	135.11
Advance to ABB	176.61	292.31
Advance to TATA PROJECT	10.24	13.32
Un-secured:		
Security Deposit- Alankar Place Office	8.85	8.85
Security Deposit to CDSL	1.50	1.50
Security Deposit to NSDL	1.50	1.50
Grand Total	317.05	452.59

NOTE 7 - Inventories

(₹ in Lakh)

Particulars	as at 31-Mar-2021	as at 31-Mar-2020
Conductors & EW	60.43	60.43
Insulators	7.31	7.31
Other Line Materials	48.19	48.19
Tower Materials	53.92	53.92
Total	169.87	169.87

Notes-Inventory lying idle for issue for last 1 year

NOTE 8 - Trade Receivables

(₹ in Lakh)

Particulars	as at 31-Mar-2021	as at 31-Mar-2020
Trade receivables		
Unsecured Considered good (Bihar State Power Holding Company Limited)	50,630.83	21,011.20
Total	50,630.83	21,011.20

NOTE 9 - Cash and Cash Equivalents

(₹ in Lakh)

Particulars	as at 31-Mar-2021	as at 31-Mar-2020
Balances with banks		
In Current Accounts (with Sweep TD)-Bank of India		
a) Account 440021110000006	2,861.05	1,940.00
b) Account 440021110000009	8,165.35	14,518.99
Total	11,026.40	16,458.98



BIHAR GRID COMPANY LIMITED
NOTE 10 - Other Current Assets
Advances Recoverable

(₹ in Lakh)

Particulars	as at 31-Mar-2021	as at 31-Mar-2020
Part-2		
Deposits for Capital Works	85.44	70.64
Recoverable From Con-Sup-Others	250.02	190.13
Part-1		
Adjustable Advance	1.71	0.74
Misc Recovery	-	1.40
CSR Advance	13.87	-
GST -TDS Collected/To Be Collected	0.24	0.17
	26.67	30.83
Prepaid Expenses	75.88	75.50
Recoverable From Con-Sup-Others	25.75	37.50
T.A Advance	0.40	-
Sub Total	479.99	406.92

Advance Tax and TDS

(₹ in Lakh)

Particulars	as at 31-Mar-2021	as at 31-Mar-2020
Advance Payment of Income Tax		
Opening Balance	321.67	2,163.70
Paid during the year	3,981.71	321.67
Adjustment during the year	(321.67)	(2,163.70)
Total	3,981.71	321.67
TDS Collected /to be Collected *		
Opening Balance	465.21	776.77
Accounted for during the year	280.72	465.21
Adjustment during the year	(541.85)	(776.77)
Total	204.07	465.21
Income tax recoverable		
Opening Balance	390.11	-
Accounted for during the year	863.52	390.11
Realised during the year	(390.11)	-
Total	863.52	390.11
Sub Total	5,049.30	1,176.99
Grand Total	5,529.30	1,583.90

* TDS Collected / to be Collected subject to reconciliation & confirmation.



BIHAR GRID COMPANY LIMITED

NOTE 11 - Equity Share Capital.

Authorized, Issued, Subscribed and Paid up share capital

(₹ in Lakh)

Particulars	as at 31-Mar-2021		as at 31-Mar-2020	
	Number of Shares	Amount	Number of Shares	Amount
Authorised Share Capital				
Equity Shares of ₹ 10 each	80,00,00,000	80,000.00	80,00,00,000	80,000.00
Total	80,00,00,000	80,000.00	80,00,00,000	80,000.00
Issued Share Capital				
Equity Shares of ₹ 10 each	58,05,93,870	58,059.39	50,15,91,052	50,159.11
Total	58,05,93,870	58,059.39	50,15,91,052	50,159.11

a. Reconciliation of the shares outstanding at the beginning and at the end of the reporting period.

Equity Shares.

	31.03.2021		31.03.2020	
	No. of Shares	(₹ in Lakh)	No. of Shares	(₹ in Lakh)
At the beginning of the period	50,15,91,052	50,159.11	34,33,71,200	34,337.12
Issued During the period	7,90,02,818	7,900.28	15,82,19,852	15,821.99
Outstanding at the end of the period	58,05,93,870	58,059.39	50,15,91,052	50,159.11

b. Terms/ rights attached to equity shares

The Company has only one class of equity shares having nominal value of Rs.10 per share. Each holder of equity entitled to one vote per share.

In the event of liquidation of the company, the holders of equity shares will be entitled to received remaining assets of the company, after distribution of all preferential amounts. The distribution will be in proportion to the number of equity shares held by the shareholders.

c. Shares held by holding company.

Out of equity shares issued by the company, shares held by the Joint Venture partners are as below:

	31.03.2021		31.03.2020	
	(₹ in Lakh)			
Power Grid Corporation of India Limited	31.03.2021	31.03.2020		
29,02,96,935 equity shares of Rs. 10 each fully paid	29,029.69	25,079.55		
Bihar State Power (Holding) Company Ltd.				
29,02,96,935 equity shares of Rs. 10 each fully paid	29,029.69	25,079.55		

d. Details of shareholders holding more than 5% shares in the company

	31.03.2021		31.03.2020	
	No. of Shares	% holding in the class	No. of Shares	% holding in the class
Equity Shares of Rs.10 each fully paid				
Power Grid Corporation of India Ltd.*	29,02,96,935	50%	25,07,95,526	50%
Bihar State Power Holding Co. Ltd.**	29,02,96,935	50%	25,07,95,526	50%
	58,05,93,870	100%	50,15,91,052	100%

* Out of 29,02,96,935 equity shares, 3 shares are held by nominees of Power Grid Corporation of India on its behalf (jointly with Power Grid Corporation of India Limited).

** Out of 29,02,96,935 equity shares, 300 shares are held by nominees of Bihar State Power (Holding) Company Ltd. on its behalf (jointly with Bihar State Power (Holding) Company Ltd.).



BIHAR GRID COMPANY LIMITED
NOTE 12 - Other Equity

(₹ in Lakh)

Particulars	as at 31-Mar-2021	as at 31-Mar-2020
Share application money pending allotment	1,299.00	1,299.00
Less : Share Allotted during the year	1,299.00	
Total	-	1,299.00
Retained Earnings		
Balance at the Beginning of the year	8,031.56	4,868.31
Add : Net Profit for the year	15,481.95	3,163.26
Less : Appropriations to CSR Reserve	-	-
Balance at the End of the year	23,513.51	8,031.56
Total	23,513.51	9,330.56

NOTE 13 - Long-Term Borrowings

(₹ in Lakh)

Particulars	as at 31-Mar-2021	as at 31-Mar-2020
Secured		
Term Loans		
From other parties		
Loan From REC	1,10,196.79	1,09,838.83
Loan From PFC	82,474.33	59,152.18
Total	1,92,671.12	1,68,991.01

Further Notes

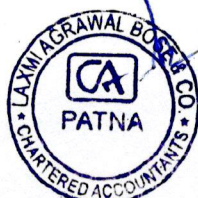
The Company has taken term loan from Rural Electrification Corporation Ltd. (REC) for Part-1 Projects (Sanction Date 31-Oct-2014 for Rs, 1359.49 Crores and 06-Jan-2020 for Rs. 189.82 Crores) on which interest rate is fixed for each drawal till its repayment in 15 years. The repayment of interest and principal is on quarterly basis. Assets of the Company created out of this loan is hypothecated to REC as security of the loan up to 110% of the loan amount. The effective rate of interest as at 31.03.2021 is 10.73% p.a. (Previous year as at 31.3.2020 10.50% p.a.). Repayment of principal has been started from quarter ending 30.06.2018. There is no default in payment of Principal and Interest.

The Company has also taken term loan from Power Finance Corporation Ltd. (PFC) for Part-2 Projects (Sanction Date - 18-Jan-2018 for Rs. 1350.69 Crores) on which interest rate is fixed for each drawal till its repayment in 15 years. The repayment of interest and principal is on quarterly basis. Assets of the Company created out of this loan is hypothecated to PFC as security of the loan up to 110% of the loan amount. The effective rate of interest as at 31.03.2021 is 9.52% p.a. (Previous year as at 31.3.2020 9.40%). Repayment of Principal has not been started. There is no default in payment of interest.

NOTE 14 - Other Non-Current Financial Liabilities

(₹ in Lakh)

Particulars	as at 31-Mar-2021	as at 31-Mar-2020
Retention Money-Bajaj Electricals Ltd.	913.59	923.16
Retention Money- Godrej & Boyce Mfg Co.Ltd.	1,654.09	1,076.87
Retention Money- KEC Int. Ltd.	1,181.03	956.19
Retention Money-ABB HVS Xiamen Co.Ltd	1,498.67	1,498.67
Retention Money-Smita Conductors Ltd.	4.52	-
Retention Money-Taikai Electric (India) Pvt Ltd	32.43	-
Retention Money-Cable Corp of India Ltd	81.38	81.38
Retention Money-EMCO	1,039.21	1,092.39
Retention Money- Ind AS	-419.00	-331.05
Retention Money- LS Cable.	-	332.17
Retention Money- L & T Ltd.	377.79	722.54
Retention Money- M/s ABB	694.95	861.30
Retention Money- R S Infraprojects	305.67	371.32
Retention Money-Siemens	889.09	1,720.76
Retention Money - Smita Conductors Ltd	-	4.52
Retention Money- ABB Power	16.15	-
Retention Money-Shandong Taikai SG Mfg Co. Ltd.	1,406.91	1,406.91
Retention Money-TBEA Energy (India) Pvt Ltd	1,084.81	452.35
Retention Money-Tata Projects	175.87	389.28
Total	10,937.18	11,558.78



(₹ in Lakh)		
NOTE 15 - Deferred Tax Liabilities (Net)	as at 31-Mar-2021	as at 31-Mar-2020
Particulars	13,228.06	12,806.30
As per Last Account	(112.13)	421.76
Additions during the year	13,115.92	13,228.06
Total		

(₹ in Lakh)		
NOTE 16 - Other Current Financial Liabilities	as at 31-Mar-2021	as at 31-Mar-2020
Particulars	41.23	16.85
Retention Money-Bajaj Electricals Ltd.	324.21	227.94
Retention Money- Godrej & Boyce Mfg Co.Ltd.	194.04	269.58
Retention Money- KEC Int. Ltd.	9,622.19	8,965.97
Current Maturity of Long term Borrowings from REC	2,746.80	2,746.80
Retention Money-Shandong Taikai SG Mfg Co. Ltd.	182.62	-
Retention Money-taikai electric india pvt ltd	1,893.40	1,819.96
Retention Money-ABB HVS Xiamen Co.Ltd	5.85	1.40
Retention Money-Aditya Birla Insulators	33.24	148.32
Retention Money-TBEA Energy (India) Pvt Ltd	23.63	23.63
Retention Money-Cable Corp of India Ltd	-	20.72
Retention Money- LS Cable.	53.18	-
Retention Money- EMCO	29.30	-
Retention Money- L & T Ltd.	99.57	-
Retention Money- M/s ABB	135.48	135.39
Retention Money- R S Infraprojects	104.00	104.00
Retention Money-Siemens	1.65	1.65
Retention Money - Smita Conductors Ltd	122.67	122.34
Retention Money-Tata Projects	15,613.06	14,604.55
Total		

(₹ in Lakh)		
NOTE 17 - Other Current Liabilities	as at 31-Mar-2021	as at 31-Mar-2020
Particulars		
Part-2		
Statutory Dues	3,040.26	9,851.05
Part-1		
Statutory Dues	7,631.72	1,576.66
Audit Fee Payable	3.16	1.85
Dead Cheque	113.58	74.96
E M D	19.40	17.63
Other Payables	82.42	79.57
PF/GPF	5.06	4.28
Salary Payable	-	0.87
Filing Fees Payable	-	0.02
Payable to Power Grid	2.22	0.95
Vehicle Expenses Payable	22.52	15.26
Security / Manpower Outsource Payable	192.13	182.90
VPF	2.84	-
IGST	0.42	-
TDS on Salary	40.68	39.11
Deposit for Capital Works	1,792.24	1,792.24
Payable to BSP(H)CL	0.00	0.00
Professional Tax	0.08	0.07
Security Deposit	173.71	122.11
Total	13,122.44	13,759.53

(₹ in Lakh)		
NOTE 18 - Provisions	as at 31-Mar-2021	as at 31-Mar-2020
Particulars		
Provisions for Employees Benefits		
Salary , PRP, Leave Encashment & Reimbursement	380.53	359.72
Superannuation benefits	76.38	57.00
Total	456.90	416.72

(₹ in Lakh)		
NOTE 19 - Current Tax Liabilities	as at 31-Mar-2021	as at 31-Mar-2020
Particulars		
As per last year balance sheet	-	-
Additions during the year	4,200.13	-
Amount adjusted during the year	-	-
Total	4,200.13	-
Net off against Advance tax and TDS	-	-
Total	4,200.13	-



BIHAR GRID COMPANY LIMITED

(₹ in Lakh)

NOTE 20 - Revenue from Operations

Particulars	For the year ended 31st March 2021	For the year ended 31st March 2020
Sale of Service		
Transmission Charges	46,020.00	20,784.00
Total	46,020.00	20,784.00

Further Notes:

Transmission charges have been recognised as per Tariff orders issued by Bihar Electricity Regulatory Commission (BERC) on 20.03.2020 for the year 2020-21, the same is subject to Truing up in the next year. Transmission Charges for the year 2018-19 has been trued up by BERC and adjusted in ARR of 2020-21 for Rs.53.98 Cr.

(₹ in Lakh)

NOTE 21 - Other income

Particulars	For the year ended 31st March 2021	For the year ended 31st March 2020
Surcharge on transmission charges	2,720.63	1,835.40
Interest from Bank	464.34	85.01
Interest from Others	84.28	-
Liquidated Damages Recovered	13.54	0.02
Sale of Scrap	14.44	5.60
Sale of Tender paper	-	0.27
Total	3,297.24	1,926.29

(₹ in Lakh)

NOTE 22 - Employee Benefit Expenses

Particulars	For the year ended 31st March 2021	For the year ended 31st March 2020
Salaries and Wages	978.64	364.64
Contribution to Provident Fund and Other Funds	102.26	50.26
Staff Welfare Expenses	48.12	16.43
Total	1,129.02	431.33

(₹ in Lakh)

NOTE 23 - Finance Costs

Particulars	For the year ended 31st March 2021	For the year ended 31st March 2020
Interest on REC Loan	11,301.92	8,895.84
Interest on PFC Loan	4,947.70	-
Commitment Charge	-	5.58
Total	16,249.63	8,901.42

(₹ in Lakh)

NOTE 24 - Depreciation and Amortization Expenses

Particulars	For the year ended 31st March 2021	For the year ended 31st March 2020
Depreciation of Property, Plant & Equipment	9,542.68	8,575.87
Amortisation of Intangible assets	11.83	11.78
Total	9,554.51	8,587.65



BIHAR GRID COMPANY LIMITED
NOTE 25 - Other expenses

(₹ in Lakh)

Particulars	For the year ended 31st March 2021	For the year ended 31st March 2020
Repair & Maintenance		
-Plant & Machinery		
Repair & Maint.-Sub-Stations	957.94	107.93
Repair & Maint.-Trans. Line	1.95	3.83
R&M-Sub-Stn Security-Manpower Outsource	1,051.09	721.90
R&M-Transmission-Manpower Outsource	32.06	17.67
-Others	2.84	0.79
Advertisement Expenses	20.33	17.14
Audit Fees	3.16	0.50
Bank Charges	0.46	10.17
Books & Periodicals Expenses	0.03	0.09
Communication Expenses	10.23	1.35
CSR Exp.-Sports,Art & Culture	51.52	6.73
CSR Capital Expenditure	21.00	42.48
Electricity Expenses	125.91	117.75
Entertainment Expenses	3.18	1.12
Filing Fee	8.07	4.11
Insurance	97.14	14.62
Legal Expenses	1.96	1.17
Licence Fee	100.00	10.10
Loss on Sale of Fixed Assets	0.08	0.11
Meeting Expenses	2.30	0.11
Office Expenses	98.41	20.89
Printing & Stationery Expenses	6.20	3.03
Prof./technical Fee	6.23	8.82
Recruitment Expenses	0.36	0.15
Rent	52.71	20.74
Taxes, Brokerage & Commission	0.37	0.58
Telephone & Mobile Expenses	7.21	3.24
Travelling Expenses	32.86	23.37
Vehicle Expenses	118.55	44.39
Total	2,814.14	1,204.88

NOTE 26 - Tax Expense

(₹ in Lakh)

Particulars	For the year ended 31st March 2020	For the year ended 31st March 2019
Tax Expense - Current	4,200.13	-
Tax Expense - Deferred	(112.13)	421.76
Total	4,088.00	421.76



BIHAR GRID COMPANY LIMITED
NOTE 27 to 44 to the Financial Statements for the Year ended 31-March-2021

27. The details of Key Management Personnel are as follows:

S. No.	Name	Designation	Date of Appointment	Date of Resignation/Cessation
1	Sh. Pratyaya Amrit	Chairman	18th April 2016	28th July 2020
		Director	10th June 2014	28th July 2020
2	Sh. K. Sreekant	Director	26th September 2019	Continuing
3	Sh. Sandeep Kumar R Pudukalkatti	Director	07th February 2017	Continuing
4	Sh. R. Lakshmanan	Nominee Director	19th June 2020	Continuing
5	Smt. Seema Gupta	Woman Director	20th September 2018	Continuing
6	Sh. T.C. Sarmah	Director	22nd December 2015	Continuing
7	Sh. Tarkeshwar Pande	Managing Director	17th July 2017	25th November 2020
		Director	13th February 2017	16th July 2017
8	Sh. Govind Singh Bhat	Nominee Director	21st March 2018	19th June 2020
9	Sh. Mahendra Kumar Singh	Managing Director	22nd December 2020	Continuing
10	Sh. Madhav Kumar Chaudhary	CFO	19th June 2020	Continuing
11	Smt. Niketa Sinha	Co.Secretary	19th September 2016	Continuing

28 Capital Commitments and Contingent liabilities:

- i) Estimated amount of contracts remaining to be executed on capital account and not provided for is ₹ 8,713.91/Lakh - (Previous Year as at 31.03.2020 ₹ 27,191.58/- Lakh)
- ii) Contingent liabilities of the company and claims against the company not acknowledged by the company as certified by the management for the period is ₹ NIL (Previous Year as at 31.03.2020 ₹ NIL).

29 Auditor's Remuneration: (Pre Allocation)

S. No.	Particulars (Excluding GST)	(₹ in Lakh)	
		2020-21	2019-20
1	Statutory Audit Fee	0.75	0.60
2	Tax Audit Fee	0.30	0.20
3	In Other Capacity- Tax Matter & Certification	0.15	0.15
4	Internal Audit Fees	0.40	0.35
5	Secretarial Audit Fees	0.25	0.25
6	Cost Audit Fee	0.30	0.25
7	Balance Sheet-CS	0.21	-
8	Other Filling (XBRL and MGT-7)	0.21	-
9	Physical Verification Auditor	0.60	-
	Total	3.16	1.80

30 The disclosure as per AS 18 - Related Party Disclosure :

The BIHAR GRID COMPANY LIMITED is a Joint Venture between Power Grid Corporation of India Ltd. and BIHAR STATE POWER(HOLDING) COMPANY LIMITED. All key decisions are taken by the Board of BIHAR GRID COMPANY LIMITED where nominees of POWERGRID and BIHAR STATE POWER(HOLDING) COMPANY LIMITED exercise control.

Details of Related parties and nature of relationship :

S. No.	Name of the Related Party	Nature of Relationship
1	Power Grid Corporation of India Limited.	JV partner
2	Bihar State Power (Holding) Company Limited.	JV partner



Details of Related party transactions :

(₹ in Lakh)

S.No.	Particulars	2020-21		2019-20	
		POWERGRID	BSPHCL	POWERGRID	BSPHCL
1	Equity Contribution (Rs.)	3,950.14	3,950.14	7,910.99	7,910.99
2	Transmission Charges & Surcharge	-	48,740.63	-	22,619.40
3	Reimbursement of Expenses	445.74	-	215.07	-
4	Pre Award Techno Managerial Service	-	-	109.75	-
5	Post Award Techno Managerial Service	151.39	-	1,292.95	-
	Total	4,547.27	52,690.78	9,528.76	30,530.39

Remuneration paid to Directors ₹ 75.97/- Lakh (previous year ₹ 90.40/- Lakh).
Advance to directors is ₹ NIL (previous year ₹ 1.21/- Lakh).

- 31 Based on information available with the Company, there are few suppliers/service providers who are registered as micro, small and medium enterprise under The Micro, Small and Medium Enterprises Development Act, 2006. Information in respect of micro and small enterprises as required by MSMED Act, 2006 is given as under :- (included in Other Current Liabilities)

(₹ in Lakh)

Particulars	31st March, 2021	31st March, 2020
Principal amount and interest due thereon remaining unpaid to any supplier as at end of each Accounting Year :-		
Principal	116.21	167.54
Interest	Nil	Nil

- 32 The obligation as per Accounting Standard-15 "Employee Benefits" has been provided for by the JV Partners . The Company has provided Short term liability in respect of the same.

33 Earning Per Share :

In terms of Accounting Standard 20 on "Earnings per Share" notified under the Companies Act 2013, Earning per share (Basic & Diluted) is worked out as follows: -

S. No.	Particulars	2020-21	2019-20
1	Nominal Value of share in ₹	10	10
2	Weighted average no of Equity shares	54,15,90,458	50,15,91,052
3	Net Profit after tax (₹ In Lakh)	15,482	3,163
4	Earning per share - Basic (in ₹)	2.86	0.63
5	Earning per share - Diluted (in ₹)	2.86	0.63

34 Capital Management

(a) Risk Management

The company's objectives when managing capital are to:

- * maximise the shareholder value;
- * safeguard its ability to continue as a going concern;
- * maintain an optimal capital structure to reduce the cost of capital.

For the purpose of the company's capital management, equity capital includes issued equity capital and all other equity reserves attributable to the equity holders of the company. The company manages its capital structure and makes adjustments in light of changes in economic conditions and requirements of financial covenants with lenders. To maintain or adjust the capital structure, the company may adjust the dividend payment to shareholders, regulate investments in new projects, return capital to shareholders or issue new shares. The company monitors capital using debt-equity ratio (80:20), which is the ratio of long term debt to total net worth. The company includes within long term debt, interest bearing loans and borrowings and current maturities of long term debt.

The debt-equity ratio of the Company was as follows:-

(₹ in Lakh)

Particulars	31st March, 2021	31st March, 2020
Long term debt (Rs.)	2,02,293.31	1,77,956.98
Equity (Rs.)	81,572.90	59,489.67
Long term debt to Equity ratio	71:29	75:25

(b) Dividends

(₹ in Lakh)

Particulars	31st March, 2021	31st March, 2020
Final dividend for the year ended 31st March 2019	nil	nil
Interim dividend for the year ended 31st March 2020	nil	nil



35 Financial Risk Management

The company's principal financial liabilities comprise loans and borrowings, and other payables.

The company's principal financial assets include trade and other receivables, and cash and cash equivalents that are generated from its operations.

The company's activities expose it to the following financial risks, namely,

- Credit risk,
- Liquidity risk,
- Market risk.

The management of financial risks by the Company is summarised below:-

a) Credit Risk

Credit risk is the risk that counter party will not meet its obligations under a financial instrument or customer contract, leading to a financial loss. The company is exposed to credit risk from its operating activities on account of trade receivables and from its financing activities due to deposits with banks and financial institutions.

A default on a financial asset is when there is no reasonable expectation of recovery, such as a debtor declaring bankruptcy or failing to engage in a repayment plan with the company.

(i) Trade Receivables

The company primarily provides intra-state transmission facilities to customers comprising mainly NBPDC and SBPDCL (a wholly owned subsidiaries of Bihar State Power (Holding) Company Limited).

BERC tariff regulations allow payment against monthly bills towards transmission charges within a period of 60 days from the date of receipt of bill and levy of surcharge on delayed payment beyond 60 days. A rebate is provided by the company for payments made within 30 days.

Ageing analysis of trade receivables

The ageing analysis of the trade receivables is as below:-

Ageing	0-30 days past due	31-60 days past due	61-90 days past due	91-120 days past due	More than 120 days past due	Total
Receivable as on 31.03.2021	8,057.96	3,835.00	-	8,787.32	29,950.55	50,630.83
Receivable as on 31.03.2020	3,915.62	1,732.00	2,184.35	1,732.00	11,447.23	21,011.20

(ii) Cash and cash equivalents

The company's cash and cash equivalents are held with public sector banks and do not have any significant credit risk.

b) Liquidity Risk

Liquidity risk management implies maintaining sufficient cash and marketable securities and the availability of funding through an adequate amount of committed facilities to meet obligations when due.

The company depends upon internal sources of liquidity to provide working capital.

c) Market Risk

Market risk is the risk that the fair value of future cash flows of a financial instrument will fluctuate because of changes in market prices. Market risk comprises three types of risk:

- Currency risk
- Interest rate risk
- Other price risk, such as equity price risk and commodity risk.

The company has nil exposure to market risk.



36 Segment Reporting:

The Company has only one activity namely to construct, own, maintain and operate intra-state transmission lines, sub stations and associated installations. Accordingly AS-17, Segment Reporting is not applicable.

37 Other disclosures:

(₹ in Lakh)

	Particulars	2020-21	2019-20
A	Value of imports on CIF basis	1,612.96	16,945.61
B	Earnings in Foreign Currency	-	-
C	Expenditure in Foreign Currency	-	-
D	Dematerialisation of shares	-	-

38 Corporate Social Responsibility

As per Section 135 of the Companies Act 2013 along with Companies (Corporate Social Responsibility Policy) Rules, 2014, the Company is required to spend, in every financial year, at least 2% of the average net profits of the company made during the three immediately preceding financial years in accordance with its CSR Policy. The details of CSR expenses for the year are as under:-

(₹ in Lakh)

Particulars	For the year ended 31st March 2021	For the year ended 31st March 2020
Unspent amount	162.58	61.80
A. Amount required to be spent during the year	173.66	149.99
B. Amount spent on CSR - Sports, Art & Culture Expenses	51.52	6.73
B. Amount spent on CSR - Scapital Expenditure	21.00	42.48
Unspent amount as on 31.03.2021	263.72	162.58

Since there is no such compulsory statutory requirement under the Companies Act, 2013 no reserve has been created for the unspent amount as on 31.03.2021.

39 Fair Value Measurements

(₹ in Lakh)

Particulars	31st March, 2021		31st March, 2020	
	Carrying Amount	Fair Value	Carrying Amount	Fair Value
Financial Assets				
Trade Receivables	50,630.83	50,630.83	21,011.20	21,011.20
Cash & Cash Equivalents	11,026.40	11,026.40	16,458.98	16,458.98
Total Financial Assets	61,657.23	61,657.23	37,470.18	37,470.18
Financial Liabilities				
Borrowings	1,92,671.12	1,92,671.12	1,68,991.01	1,68,991.01
Other Non Current financial Liabilities- Retention money from Contractors	11,356.17	10,937.18	11,889.83	11,558.78
Other Current financial Liabilities- Current maturity of long term borrowings and Other retention money	15,613.06	15,613.06	14,604.55	14,604.55
Total Financial Liabilities	2,19,640.35	2,19,221.35	1,95,485.40	1,95,154.34

Further notes:

The carrying amounts of trade receivables, cash and cash equivalents and other current financial liabilities are considered to be the same as their fair value, due to their short term nature.

The carrying amount of borrowings are considered to be the same as their fair value, due to their fixed rate of interest for each drawl.

40 The company has opted to pay Income tax as per Provisions of Section 115BAA of the Income Tax Act 1961 since financial year 2019-20.

41 Retention Money from Contractors related to commissioning of Projects, which are in the nature of Long term are kept under Other Non-Current Financial Liabilities. Balances in retention money accounts and contractor's/supplier's control accounts are subject to confirmation/reconciliation and reconciliations are carried out on regular basis.



42 Estimation of uncertainties relating to the global health pandemic from COVID-19: In assessing the recoverability of assets, the company has considered internal and external information up to the date of approval of these financial statements including credit reports and economic forecasts. As the company's revenue is based on CERC tariff order and falls under essential services and based on the current indicators of future economic conditions, the company expects to recover the carrying amount of these assets.

43 Break-up of Deferred Tax Liability is as under:-

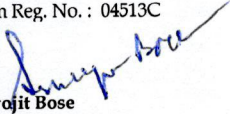
	31st March, 2021	(₹ in Lakh) 31st March, 2020
Relating to Depreciation on Property, Plant & Equipment	13,115.92	13,228.06

44 (a) Figures have been rounded off to nearest Rupees in Lakh up to Two Decimal.

(b) Previous year figures have been regrouped/ rearranged wherever necessary.

As per our report of even date.

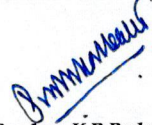
For Laxmi Agrawal Bose & Co.
Chartered Accountants
Firm Reg. No. : 04513C

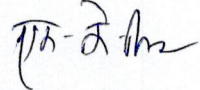

Suvojit Bose
Partner
Membership No.: 73032



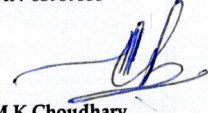
Place : Patna
Date : 26.07.2021

For and On behalf of the Board of Directors


Sandeep K.R. Pudakalkatti
Director
DIN-07387571


Mahendra Kumar Singh
Managing Director
DIN-08989333


Niketa Sinha
Co. Secretary


M K Choudhary
CFO

Place : Patna
Date : 26.07.2021



REC Loans

Sl.No.	First Disb Date	Days	ROI	O/S Bal	Contribution	Weight of Interest
1	19-FEB-2015	91	10.5	39990755	0.33%	0.04%
2	02-MAR-2015	91	10.5	120000000	1.00%	0.11%
3	27-MAR-2015	91	10.5	148000004	1.24%	0.13%
4	13-MAY-2015	43	10.5	100000004	0.83%	0.09%
6	01-JUL-2015	91	10.75	233439680	1.95%	0.21%
7	16-OCT-2015	91	10.75	408000000	3.41%	0.37%
8	30-NOV-2015	91	10.75	163999996	1.37%	0.15%
9	13-JAN-2016	91	10.75	223999996	1.87%	0.20%
10	17-FEB-2016	91	10.75	162559996	1.36%	0.15%
11	07-MAR-2016	91	10.75	544320000	4.54%	0.49%
12	28-MAR-2016	91	11	226800000	1.89%	0.21%
13	31-MAR-2016	91	11	45096703	0.38%	0.04%
14	11-APR-2016	91	11	163519996	1.36%	0.15%
15	25-MAY-2016	91	11	348240000	2.91%	0.32%
16	17-JUN-2016	91	11	271999996	2.27%	0.25%
17	18-JUL-2016	91	11	48000000	0.40%	0.04%
18	18-JUL-2016	91	11	352000004	2.94%	0.32%
19	12-SEP-2016	91	11	559999996	4.67%	0.51%
20	20-OCT-2016	91	11	799999996	6.68%	0.73%
21	21-DEC-2016	91	11	1015999996	8.48%	0.93%
22	31-DEC-2016	91	11	133645714	1.12%	0.12%
23	14-FEB-2017	91	11	264000000	2.20%	0.24%
24	31-MAR-2017	91	11	166753565	1.39%	0.15%
25	31-MAR-2017	91	11	73246435	0.61%	0.07%
26	29-MAY-2017	91	11	559999996	4.67%	0.51%
27	30-JUN-2017	91	11	304268436	2.54%	0.28%
28	30-JUN-2017	91	11	312000000	2.60%	0.29%
29	30-JUN-2017	91	11	183731560	1.53%	0.17%
30	06-SEP-2017	91	10.5	600000000	5.01%	0.53%
31	27-DEC-2017	91	10.5	247600004	2.07%	0.22%
32	31-DEC-2017	91	10.5	232311794	1.94%	0.20%
33	25-MAY-2018	55	10	199999996	1.67%	0.17%
35	30-JUN-2018	91	10.25	247712371	2.07%	0.21%
36	30-JUN-2018	91	10.25	7008316	0.06%	0.01%
37	25-SEP-2018	91	10.25	276610168	2.31%	0.24%
38	13-NOV-2018	91	10.25	227586210	1.90%	0.19%
39	20-MAR-2019	91	10.5	188800003	1.58%	0.17%
40	24-JUN-2019	91	10.5	143914289	1.20%	0.13%
41	30-JUL-2019	91	10.5	413149089	3.45%	0.36%
42	17-DEC-2019	91	10.5	208291973	1.74%	0.18%
43	10-JUN-2020	91	10.5	225882354	1.89%	0.20%
44	17-SEP-2020	91	10	426524226	3.56%	0.36%
45	31-DEC-2020	91	10	362894248	3.03%	0.30%
				11981897865	100.00%	10.72%

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PFC Loans

Sl.No.	Disbursement Date	Days	ROI	O/S Bal	weighted avg ROI
1	20-04-2018	75	9.15	25,00,00,000	0.28%
2	15-07-2018	75	9.40	54,52,397	0.01%
3	16-08-2018	75	9.40	25,00,00,000	0.28%
4	15-10-2018	75	9.40	96,93,876	0.01%
5	26-10-2018	75	9.40	31,00,00,000	0.35%
6	15-01-2019	75	9.40	1,85,14,590	0.02%
7	25-03-2019	75	9.65	19,00,00,000	0.22%
8	15-04-2019	75	9.65	2,04,55,220	0.02%
9	18-06-2019	75	9.65	52,27,00,000	0.61%
10	25-07-2019	75	9.65	38,50,00,000	0.45%
11	15-07-2019	75	9.65	2,84,10,431	0.03%
12	02-08-2019	75	9.65	1,50,00,00,000	1.76%
13	15-10-2019	75	9.65	7,60,48,396	0.09%
14	11-11-2019	75	9.65	75,00,00,000	0.88%
15	03-01-2020	75	9.65	1,00,00,00,000	1.17%
16	15-01-2020	75	9.65	9,89,43,075	0.12%
17	13-03-2020	75	9.40	50,00,00,000	0.57%
18	15-04-2020	75	9.40	13,70,24,464	0.16%
19	27-05-2020	75	9.40	50,00,00,000	0.57%
20	15-07-2020	75	9.40	15,08,41,195	0.17%
21	15-09-2020	75	9.15	50,00,00,000	0.55%
21	15-09-2020	75	9.40	16,53,00,620	0.19%
21	30-12-2020	75	9.40	50,00,00,000	0.57%
21	15-01-2021	75	9.40	17,90,48,619	0.20%
21	26-03-2021	5	9.40	20,00,00,000	0.23%
				8247432883	9.52%

बिहार ग्रिड कम्पनी लिमिटेड

(संयुक्त उपक्रम बिहार स्टेट पावर (होल्डिंग) कं० लि० एवं पावरग्रिड)

BIHAR GRID COMPANY LIMITED

(Joint Venture of Bihar State Power (Holding) Co. Ltd. & POWERGRID)



बिहार ग्रिड

द्वितीय तल, अलंकार प्लेस, बोरिंग रोड, पटना-800 001, दूरभाष : 0612-2530477 (कार्यालय)
2nd Floor, Alankar Place, Boring Road, Patna - 800 001, Tel. : 0612-2530477 (Off.), e-mail : bihargrid@gmail.com

CIN : U40100BR2013PLC019722

Ref.: JV/PT/BG/BM-Extracts-II/

Date: 29.01.2021

Certified True Copy of the Resolution Passed by way of Circulation by the Board of Directors of Bihar Grid Company Limited effective from 28th January, 2021.

CR 02/2021 -

To approve award recommendation for Construction of Emergency approach road by upgradation of road at 220/132/33 KV Amnour GIS Sub-Station of BGCL:

"Resolved that the Board be and hereby approves the placement of award of contract for "Package-B" for the construction of emergency approach road by upgradation of road at 220/132/33 KV Amnour GIS Sub-Station of the Company in favour of M/s SKL Engicon Pvt. Ltd, Patna, at a total contract price of Rs.1,01,00,000/- (Rupees One Crore One Lakh) only plus applicable GST/ taxes, with a completion period of three months from date of NOA."

"Resolved further that the Managing Director / Director (Projects) of the Company be and are hereby, severally authorized to conduct the post bid discussion with M/s SKL Engicon Pvt. Ltd, Patna, and finalize the Contract and take all such steps and do all such act as may be deemed necessary to give effect to the resolution."

Certified True Copy
For Bihar Grid Company Limited
of Bihar Grid Company Limited
Niketa Sinha
29/01/2021
Niketa Sinha
(Niketa Sinha) Company Secretary
Company Secretary

72/10/2021

बिहार ग्रिड कम्पनी लिमिटेड
(संयुक्त उपक्रम बिहार स्टेट पावर (होलडिंग) कं० लि० एवं पावरग्रिड)
BIHAR GRID COMPANY LIMITED
(Joint Venture of Bihar State Power (Holding) Co. Ltd. & POWERGRID)



बिहार ग्रिड

द्वितीय तल, अलंकार प्लेस, बोरिंग रोड, पटना-800 001, दूरभाष : 0612-2530477 (कार्यालय)
2nd Floor, Alankar Place, Boring Road, Patna - 800 001, Tel. : 0612-2530477 (Off.), e-mail . bihargrid@gmail.com

CIN : U40100BR2013PLC019722

Ref.: JV/PT/BG/BM-Extracts-II/

Date: 29.01.2021

Certified True Copy of the Resolution Passed by way of Circulation by the Board of Directors of Bihar Grid Company Limited effective from 28th January, 2021.

CR 01/2021 -

To approve award recommendation for Construction of Retaining Wall for strengthening and protection of boundary wall at 220/132/33 KV Amnour GIS Sub-Station of BGCL:

"Resolved that the Board be and hereby approves the placement of award of contract for "Package-A" for the construction of Retaining Wall for strengthening and protection of boundary wall at 220/132/33 KV Amnour GIS Sub-Station of the Company in favour of M/s Ganpati Bappa Construction Pvt. Ltd., Patna, at a total contract price of Rs.86,61,443/- (Rupees Eighty Six Lakh Sixty One Thousand Four Hundred Forty Three) only plus applicable GST/ taxes, with a completion period of three months from date of NOA."

"Resolved further that the Managing Director / Director (Projects) of the Company be and are hereby, severally authorized to conduct the post bid discussion with M/s Ganpati Bappa Construction Pvt. Ltd., Patna, and finalize the Contract and take all such steps and do all such act as may be deemed necessary to give effect to the resolution."

Certified True Copy
For Bihar Grid Company Limited
For Bihar Grid Company Limited

Niketa Sinha
Niketa Sinha
Company Secretary
(Niketa Sinha)
Company Secretary

अलंकार प्लेस



Investments & Deposits



Interest Rates | Deposit Rates | Reinvestment Plan | SBI NRI Services - Interest Rates | Show More

%

Marginal Cost Lending Rates

Effective Date	Interest Rate (%)						
	ON	1M	3M	6M	1Y	2Y	3Y
15.10.2021	6.65	6.65	6.65	6.95	7.00	7.20	7.30
15.09.2021	6.65	6.65	6.65	6.95	7.00	7.20	7.30
15.08.2021	6.65	6.65	6.65	6.95	7.00	7.20	7.30
15.07.2021	6.65	6.65	6.65	6.95	7.00	7.20	7.30
15.06.2021	6.65	6.65	6.65	6.95	7.00	7.20	7.30

MCLR Historical Data

MCLR Historical Data

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BIHAR GRID COMPANY LIMITED

2nd FLOOR, ALANKAR PLACE, BORING ROAD, PATNA

CIN: 040100BR2013PLC019722

CWIP & Capitalisation

1-Apr-2021 to 30-Sep-2021

Amount in Cr.

Sl.	Scheme Name	Opening CWIP	Addition	Capitalisation	Closing CWIP
1	Phase-IV, Part-I	735.95 Cr	62.88 Cr	0.00 Cr	798.83 Cr
2	Phase-IV, Part-II	96.12 Cr	17.51 Cr	5.20 Cr	108.42 Cr
3	Supplementary				
	Total	832.07 Cr	80.39 Cr	5.20 Cr	907.25 Cr

BIHAR GRID COMPANY LIMITED										
Loading level of Transmission Assets										
									Month: April 2021	
Voltage Grade	S. No	Name of TL	Element Loading Details (in MW)						Avg	Remark
			Max	Time	Date	Min	Time	Date		
A. Power Flow in 220kV transmission line										
220 kV (26 nos.)	1	Amnour (BG) - Hajipur (BS) ckt-01	-170.86	11:00	08-04-2021	-38.81	15:00	04-04-2021	-94.26	
	2	Amnour (BG) - Hajipur (BS) ckt-02	-186.83	14:00	16-04-2021	-0.15	16:00	19-04-2021	-80.22	
	3	Patna (PG) - Khagaul (BS) ckt-02	-103.48	21:00	16-04-2021	-29.63	14:00	19-04-2021	-72.54	
	4	Patna (PG) - Khagaul (BS) ckt-03	-102.26	21:00	16-04-2021	-29.37	14:00	19-04-2021	-71.85	
	5	Khijirsarai (BG) - Biharsharif (BS) ckt-01	-145.72	07:00	01-04-2021	-5.03	04:00	30-04-2021	-69.92	
	6	Khijirsarai (BG) - Biharsharif (BS) ckt-02	-145.98	07:00	01-04-2021	-3.9	04:00	30-04-2021	-68.82	
	7	Khijirsarai (BG) - Both Gaya (BS) ckt-01	-67.20	20:00	03-04-2021	-0.21	03:00	02-04-2021	-21.59	
	8	Khijirsarai (BG) - Both Gaya (BS) ckt-02	-67.58	20:00	03-04-2021	-0.3	03:00	02-04-2021	-23.05	
	9	Khijirsarai (BG) - Gaya (PG) ckt-01	-113.24	20:00	03-04-2021	-8.29	13:00	19-04-2021	-58.53	
	10	Khijirsarai (BG) - Gaya (PG) ckt-02	-113.49	20:00	03-04-2021	-8.28	13:00	19-04-2021	-58.64	
	11	Khijirsarai (BG) - Narhat (BG) ckt-01	99.90	20:00	13-04-2021	10.92	17:00	29-04-2021	69.00	
	12	Khijirsarai (BG) - Narhat (BG) ckt-02	99.68	20:00	13-04-2021	10.95	17:00	29-04-2021	68.96	
	13	Narhat (BG) - Sekhopur Sarai (BG) ckt-01	6.50	13:00	06-04-2021	1.70	15:00	13-04-2021	4.97	
	14	Narhat (BG) - Sekhopur Sarai (BG) ckt-02	12.00	02:00	16-04-2021	0.40	11:00	11-04-2021	11.95	
	15	Sekhopur Sarai (BG) - Haveli Kharagpur (BG) ckt-01	6.50	13:00	06-04-2021	1.7	15:00	13-04-2021	5.56	
	16	Sekhopur Sarai (BG) - Haveli Kharagpur (BG) ckt-02	12.00	02:00	16-04-2021	0.4	11:00	11-04-2021	8.60	
	17	Haveli Kharagpur (BG) - Goradih (BG) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	18	Haveli Kharagpur (BG) - Goradih (BG) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	19	Mokama (BG) - Biharsharif (BS) ckt-1	-127.10	14:00	02-04-2021	0.00	14:00	01-04-2021	-59.96	
	20	Mokama (BG) - Biharsharif (BS) ckt-2	-127.90	14:00	02-04-2021	0.00	14:00	01-04-2021	-60.64	
	21	Mokama (BG) - BTPS ckt-1	-58.00	07:00	01-04-2021	0.00	07:00	01-04-2021	-43.64	
	22	Mokama (BG) - BTPS ckt-2	-58.40	07:00	01-04-2021	0.00	07:00	01-04-2021	-43.62	
	23	Dumraon New (BG) - Ara (PG) ckt-01	35.93	14:00	02-04-2021	0.01	00:00	20-04-2021	6.97	
	24	Dumraon New (BG) - Ara (PG) ckt-02	35.93	14:00	02-04-2021	0.05	22:00	16-04-2022	7.05	
	25	Dumraon New (BG) - Nadokhar (BS) ckt-01	-55.26	14:00	02-04-2021	-4.49	06:00	22-04-2021	-36.19	
	26	Dumraon New (BG) - Nadokhar (BS) ckt-02	-55.46	14:00	02-04-2021	-4.55	06:00	22-04-2022	-36.39	
B. Power Flow in 132 kV transmission line										
132 kV (29 nos.)	1	Amnour (BG) - Siwan (BS) ckt-01	80.12	22:00	21-04-2021	0.04	07:00	22-04-2021	46.05	
	2	Amnour (BG) - Siwan (BS) ckt-02	80.76	22:00	21-04-2021	0.06	07:00	22-04-2021	46.25	
	3	Amnour (BG) - Chhapra (BS) ckt-01	52.47	14:00	24-04-2021	0.01	06:00	22-04-2021	32.28	
	4	Amnour (BG) - Chhapra (BS) ckt-02	70.07	21:00	19-04-2021	0.01	15:00	19-04-2021	32.77	
	5	Khijirsarai (BG) - Both Gaya (BS) ckt-03	33.35	20:00	16-04-2021	0	23:00	18-04-2021	8.20	
	6	Khijirsarai (BG) - Wajirganj (BS) ckt-01	40.89	19:00	24-04-2021	0	20:00	01-04-2021	7.23	
	7	Khijirsarai (BG) - Hulasganj (BS) ckt-01	65.53	19:00	01-04-2021	0	00:00	20-04-2021	19.75	
	8	Khijirsarai (BG) - Jehanabad (BS) ckt-01	89.32	20:00	20-04-2021	3.35	03:00	30-04-2021	58.71	
	9	Khijirsarai (BG) - Jehanabad (BS) ckt-02	89.28	20:00	20-04-2021	3.35	03:00	30-04-2021	58.67	
	10	Narhat (BG) - Nawadah (BS) ckt-01	56.77	20:00	13-04-2021	0.49	13:00	19-04-2021	36.03	
	11	Narhat (BG) - Nawadah (BS) ckt-02	56.62	20:00	13-04-2021	0.51	13:00	19-04-2021	35.93	
	12	Haveli Kharagpur (BG) - Sultanganj (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	13	Haveli Kharagpur (BG) - Sultanganj (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	14	Haveli Kharagpur (BG) - Lakhisarai (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	15	Haveli Kharagpur (BG) - Lakhisarai (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	16	Haveli Kharagpur (BG) - Jamalpur (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	17	Haveli Kharagpur (BG) - Jamalpur (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	18	Sekhopur Sarai (BG) - Sekhpura (BS) ckt-01	21.50	19:00	15-04-2021	5.2	15:00	19-04-2021	15.48	
	19	Sekhopur Sarai (BG) - Sekhpura (BS) ckt-02	21.70	19:00	15-04-2021	5.0	15:00	19-04-2021	15.55	
	20	Sekhopur Sarai (BG) - Biharsharif (BS) TL	0	0	0	0	0	0	0.00	System connected but no power flow
	21	Goradih (BG) - Sultanganj (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	22	Goradih (BG) - Sultanganj (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	23	Goradih (BG) - Kahalgaon (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	24	Goradih (BG) - Kahalgaon (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	25	Goradih (BG) - Sabour (BS) ckt-01	-10.6	16:00	16-04-2021	0	00:00	01-04-2021	-2.66	
	26	Goradih (BG) - Sabour (BS) ckt-02	-23.10	20:00	14-04-2021	0.00	00:00	01-04-2021	-5.47	
	27	Mokama (BG) - Hatidah (BS) ckt-01	34.70	21:00	07-04-2021	0.00	14:00	01-04-2021	16.14	
	28	Mokama (BG) - Hatidah (BS) ckt-02	57.00	07:00	11-04-2021	0.00	09:00	22-04-2021	16.95	
	29	Dumraon New (BG) - Dumraon Old (BS) ckt-2	80.69	21:00	16-04-2021	3.45	13:00	19-04-2021	56.13	
C. Power Flow in transformers										
Substation Details	S.No.	MVA Capacity	Element Loading Details (in MW)						Avg	Remark
			Max	Time	Date	Min	Time	Date		
Amnour GIS	1	Tr-01/160 MVA, 220/132 kV	140.62	21:00	15-04-2021	0.07	16:00	19-04-2021	90.61	
	2	Tr-02/160 MVA, 220/132 kV	142.29	21:00	15-04-2021	0.07	16:00	19-04-2021	91.82	
	3	Tr-01/50 MVA, 132/33 kV	28.03	22:00	16-04-2021	0.04	16:00	19-04-2021	17.23	
	4	Tr-02/50 MVA, 132/33 kV	21.81	20:00	16-04-2021	0.05	15:00	01-04-2021	13.09	
Khijirsarai GIS	1	Tr-01/160 MVA, 220/132 kV	139.44	19:00	01-04-2021	10.82	13:00	19-04-2021	79.79	
	2	Tr-02/160 MVA, 220/132 kV	143.56	19:00	01-04-2021	11.83	13:00	19-04-2021	82.57	
	3	Tr-01/50 MVA, 132/33 kV			Not Commissioned					
	4	Tr-02/50 MVA, 132/33 kV	6.37	19:00	19-04-2021	0.03	03:00	18-04-2021	4.26	
Narhat GIS	5	Tr-03/50 MVA, 132/33 kV	7.88	20:00	14-04-2021	0.07	08:00	22-04-2021	5.55	
	1	Tr-01/160 MVA, 220/132 kV	68.26	20:00	13-04-2021	0.08	07:00	12-04-2021	44.46	
	2	Tr-02/160 MVA, 220/132 kV	65.73	20:00	13-04-2021	0.05	07:00	12-04-2021	42.51	
	3	Tr-01/50 MVA, 132/33 kV	5.59	19:00	13-04-2021	0.04	07:00	12-04-2021	5.02	
Sekhopur Sarai GIS	4	Tr-02/50 MVA, 132/33 kV	20.93	23:00	06-04-2021	0.03	17:00	17-04-2021	20.00	
	1	Tr-01/160 MVA, 220/132 kV	29.50	19:00	20-04-2021	2.10	15:00	09-04-2021	20.30	
	2	Tr-02/160 MVA, 220/132 kV	28.20	19:00	20-04-2021	2.50	15:00	09-04-2021	20.20	
	3	Tr-01/50 MVA, 132/33 kV	0.90	19:00	04-04-2021	0.20	06:00	01-04-2021	0.60	
Haveli Kharagpur GIS	4	Tr-02/50 MVA, 132/33 kV	18.60	18:00	04-04-2021	0.5	15:00	19-04-2021	0.87	
	1	Tr-01/160 MVA, 220/132 kV	6.60	22:00	30-04-2021	0.70	17:00	09-04-2021	5.46	
	2	Tr-02/160 MVA, 220/132 kV	5.40	00:00	30-04-2021	0.20	17:00	09-04-2021	3.16	
	3	Tr-01/50 MVA, 132/33 kV	7.80	22:00	30-04-2021	1.6	11:00	11-04-2021	4.80	
Goradih GIS	4	Tr-02/50 MVA, 132/33 kV	4.40	22:00	14-04-2021	1.1	10:00	20-04-2021	3.88	
	1	Tr-01/160 MVA, 220/132 kV	0	0	0	0	0	0	0.00	System connected but no power flow
	2	Tr-02/160 MVA, 220/132 kV			Not Commissioned					
	3	Tr-01/50 MVA, 132/33 kV	17.30	16:00	14-04-2021	0.00	20:00	12-04-2021	4.59	
Mokama GIS	4	Tr-02/50 MVA, 132/33 kV	7.00	19:00	14-04-2021	0.00	11:00	09-04-2021	3.35	
	1	Tr-01/160 MVA, 220/132 kV			Not Commissioned					
	2	Tr-02/160 MVA, 220/132 kV	69.20	21:00	07-04-2021	0.00	09:00	22-04-2021	32.87	
	3	Tr-01/80 MVA, 132/33 kV			Not Commissioned					
Dumraon GIS	4	Tr-02/80 MVA, 132/33 kV	0	0	0	0	0	0	0.00	System connected but no power flow
	1	Tr-01/160 MVA, 220/132 kV	86.41	21:00	16-04-2021	3.66	13:00	19-04-2021	57.43	
	2	Tr-01/80 MVA, 132/33 kV	6.41	20:00	13-04-2021	0.05	09:00	12-04-2021	2.59	
Note	Negative sign (-) denote import of power and positive sign (+) denote export of power. For example (-) 186.83 MW in Hajipur - Amnour ckt-2 denotes import of 186.83 MW from Hajipur S/S to Amnour S/S and 80.12 MW in Amnour-Siwan ckt-1 denotes 80.12 MW from Amnour to Siwan S/S.									

72/02/2020

BIHAR GRID COMPANY LIMITED
Loading level of Transmission Assets

Month: **MAY 2021**

Voltage Grade	S. No	Name of TL	Element Loading Details (in MW)						Remark	
			Max	Time	Date	Min	Time	Date		Avg
A. Power Flow in 220kV transmission line										
220 kV (26 nos.)	1	Amnour (BG) - Hajipur (BS) ckt-01	-136.84	01:00	07-05-2021	-0.08	13:00	28-05-2021	-78.50	
	2	Amnour (BG) - Hajipur (BS) ckt-02	-139.82	17:00	05-05-2021	-0.06	14:00	12-05-2021	-74.94	
	3	Patna (PG) - Khagaul (BS) ckt-02	-98.74	22:00	15-05-2021	-20.86	12:00	12-05-2021	-72.00	
	4	Patna (PG) - Khagaul (BS) ckt-03	-97.75	22:00	15-05-2021	-20.61	12:00	12-05-2021	-71.39	
	5	Khijirsarai (BG) - Biharsharif (BS) ckt-01	-134.64	06:00	12-05-2021	-1.62	04:00	18-05-2021	-73.45	
	6	Khijirsarai (BG) - Biharsharif (BS) ckt-02	-134.92	06:00	12-05-2021	0.08	04:00	18-05-2021	-72.60	
	7	Khijirsarai (BG) - Bodh Gaya (BS) ckt-01	-62.05	23:00	17-05-2021	0.00	11:00	13-05-2021	-12.87	
	8	Khijirsarai (BG) - Bodh Gaya (BS) ckt-02	-62.27	23:00	17-05-2021	-0.06	17:00	05-05-2021	-11.95	
	9	Khijirsarai (BG) - Gaya (PG) ckt-01	-89.57	00:00	18-05-2021	0.29	01:00	08-05-2021	-41.33	
	10	Khijirsarai (BG) - Gaya (PG) ckt-02	-89.87	00:00	18-05-2021	0.33	14:00	20-05-2021	-41.46	
	11	Khijirsarai (BG) - Narhat (BG) ckt-01	76.23	21:00	16-05-2021	2.74	15:00	12-05-2021	48.34	
	12	Khijirsarai (BG) - Narhat (BG) ckt-02	76.07	21:00	16-05-2021	2.61	15:00	12-05-2021	48.32	
	13	Narhat (BG) - Sekhopur Sarai (BG) ckt-01	41.09	12:00	04-05-2021	0.63	15:00	12-05-2021	20.98	
	14	Narhat (BG) - Sekhopur Sarai (BG) ckt-02	40.99	12:00	04-05-2021	0.56	15:00	12-05-2021	20.92	
	15	Sekhopur Sarai (BG) - Haveli Kharagpur (BG) ckt-01	11.30	22:00	24-05-2021	1.2	19:00	13-05-2021	3.81	
	16	Sekhopur Sarai (BG) - Haveli Kharagpur (BG) ckt-02	48.30	13:00	04-05-2021	-0.2	06:00	08-05-2021	4.51	
	17	Haveli Kharagpur (BG) - Goradih (BG) ckt-01	45.40	12:00	04-05-2021	13.20	23:00	03-05-2021	40.64	
	18	Haveli Kharagpur (BG) - Goradih (BG) ckt-02	-1.4	11:00	05-05-2021	-0.1	20:00	03-05-2021	-0.50	
	19	Mokama (BG) - Biharsharif (BS) ckt-1	-154.10	03:00	24-05-2021	0.00	07:00	01-05-2021	-42.47	
	20	Mokama (BG) - Biharsharif (BS) ckt-2	-154.90	00:00	23-05-2021	0.00	07:00	01-05-2021	-42.97	
	21	Mokama (BG) - BTPS ckt-1	-73.00	15:00	20-05-2021	0.00	07:00	01-05-2021	-33.02	
	22	Mokama (BG) - BTPS ckt-2	-73.50	15:00	20-05-2021	0.00	07:00	01-05-2021	-35.59	
	23	Dumraon New (BG) - Ara (PG) ckt-01	41.41	23:00	26-05-2021	-0.01	16:00	03-05-2021	22.18	
	24	Dumraon New (BG) - Ara (PG) ckt-02	41.53	23:00	26-05-2021	-0.04	16:00	03-05-2021	22.13	
	25	Dumraon New (BG) - Nadokhar (BS) ckt-01	-66.28	23:00	26-05-2021	0.12	08:00	27-05-2021	-26.11	
	26	Dumraon New (BG) - Nadokhar (BS) ckt-02	-66.71	23:00	26-05-2021	-0.01	08:00	27-05-2021	-26.27	
B. Power Flow in 132 kV transmission line										
132 kV (29 nos.)	1	Amnour (BG) - Siwan (BS) ckt-01	68.27	01:00	07-05-2021	0.01	08:00	12-05-2021	33.26	
	2	Amnour (BG) - Siwan (BS) ckt-02	68.88	01:00	07-05-2021	0.05	09:00	28-05-2021	33.83	
	3	Amnour (BG) - Chhapra (BS) ckt-01	58.96	20:00	31-05-2021	1.99	06:00	10-05-2021	30.08	
	4	Amnour (BG) - Chhapra (BS) ckt-02	66.08	18:00	10-05-2021	0.01	09:00	20-05-2021	31.00	
	5	Khijirsarai (BG) - Bodh Gaya (BS) ckt-03	24.93	15:00	18-05-2021	0	21:00	03-05-2021	0.07	
	6	Khijirsarai (BG) - Wajirganj (BS) ckt-01	43.95	21:00	03-05-2021	0.07	14:00	05-05-2021	27.60	
	7	Khijirsarai (BG) - Hulasganj (BS) ckt-01	34.22	12:00	29-05-2021	0.1	16:00	03-05-2021	16.85	
	8	Khijirsarai (BG) - Jehanabad (BS) ckt-01	85.46	20:00	16-05-2021	0	09:00	30-05-2021	52.00	
	9	Khijirsarai (BG) - Jehanabad (BS) ckt-02	85.52	20:00	16-05-2021	0	09:00	30-05-2021	52.19	
	10	Narhat (BG) - Nawadah (BS) ckt-01	35.39	18:00	17-05-2021	0.03	00:00	18-05-2021	20.94	
	11	Narhat (BG) - Nawadah (BS) ckt-02	35.29	18:00	17-05-2021	0.03	00:00	18-05-2021	20.87	
	12	Haveli Kharagpur (BG) - Sultanganj (BS) ckt-01	0	0	0	0	0	0	0	System connected but no power flow
	13	Haveli Kharagpur (BG) - Sultanganj (BS) ckt-02	0	0	0	0	0	0	0	System connected but no power flow
	14	Haveli Kharagpur (BG) - Lakhisarai (BS) ckt-01	0	0	0	0	0	0	0	System connected but no power flow
	15	Haveli Kharagpur (BG) - Lakhisarai (BS) ckt-02	0	0	0	0	0	0	0	System connected but no power flow
	16	Haveli Kharagpur (BG) - Jamalpur (BS) ckt-01	0	0	0	0	0	0	0	System connected but no power flow
	17	Haveli Kharagpur (BG) - Jamalpur (BS) ckt-02	0	0	0	0	0	0	0	System connected but no power flow
	18	Sekhopur Sarai (BG) - Sekhpura (BS) ckt-01	20.80	21:00	31-05-2021	1.0	06:00	08-05-2021	12.02	
	19	Sekhopur Sarai (BG) - Sekhpura (BS) ckt-02	21.00	21:00	31-05-2021	1.0	06:00	08-05-2021	12.09	
	20	Sekhopur Sarai (BG) - Biharsharif (BS) TL	0	0	0	0	0	0	0	System connected but no power flow
	21	Goradih (BG) - Sultanganj (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	22	Goradih (BG) - Sultanganj (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	23	Goradih (BG) - Kahalgaon (BS) ckt-01	44.1	12:00	04-05-2021	11.9	22:00	03-05-2021	20.64	
	24	Goradih (BG) - Kahalgaon (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	25	Goradih (BG) - Sabour (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	26	Goradih (BG) - Sabour (BS) ckt-02	-24.80	20:00	10-05-2021	0.30	05:00	13-05-2021	-9.37	
	27	Mokama (BG) - Hatidah (BS) ckt-01	18.70	20:00	16-05-2021	0.00	01:00	01-05-2021	7.49	
	28	Mokama (BG) - Hatidah (BS) ckt-02	35.90	19:00	25-05-2021	0.00	01:00	01-05-2021	8.51	
	29	Dumraon New (BG) - Dumraon Old (BS) ckt-2	80.43	21:00	17-05-2021	3.26	00:00	28-05-2021	50.61	

Substation Details	S.No.	MVA Capacity	Element Loading Details (in MW)						Remark	
			Max	Time	Date	Min	Time	Date		Avg
C. Power Flow in transformers										
Amnour GIS	1	Tr-01/160 MVA, 220/132 kV	135.26	01:00	07-05-2021	0.02	11:00	28-05-2021	77.64	
	2	Tr-02/160 MVA, 220/132 kV	137.01	01:00	07-05-2021	0.02	13:00	28-05-2021	78.97	
	3	Tr-01/50 MVA, 132/33 kV	28.57	15:00	10-05-2021	0.03	05:00	29-05-2021	16.01	
	4	Tr-02/50 MVA, 132/33 kV	24.4	22:00	16-05-2021	0.03	00:00	27-05-2021	12.44	
Khijirsarai GIS	1	Tr-01/160 MVA, 220/132 kV	124.54	20:00	17-05-2021	2.09	14:00	12-05-2021	77.09	
	2	Tr-02/160 MVA, 220/132 kV	128.29	20:00	17-05-2021	2.92	14:00	12-05-2021	79.69	
	3	Tr-01/50 MVA, 132/33 kV	Not Commissioned							
Narhat GIS	4	Tr-02/50 MVA, 132/33 kV	5.43	07:00	01-05-2021	0.03	09:00	04-05-2021	3.36	
	5	Tr-03/50 MVA, 132/33 kV	9.67	20:00	17-05-2021	0.06	11:00	11-05-2021	4.71	
	1	Tr-01/160 MVA, 220/132 kV	61.87	00:00	03-05-2021	0.58	00:00	18-05-2021	27.92	
	2	Tr-02/160 MVA, 220/132 kV	44.27	22:00	17-05-2021	1.64	04:00	18-05-2021	26.16	
Sekhopur Sarai GIS	3	Tr-01/50 MVA, 132/33 kV	5.60	20:00	17-05-2021	0.08	18:00	05-05-2021	4.86	
	4	Tr-02/50 MVA, 132/33 kV	16.27	19:00	17-05-2021	0.03	21:00	02-05-2021	14.66	
	1	Tr-01/160 MVA, 220/132 kV	25.60	06:00	17-05-2021	0.10	15:00	12-05-2021	16.74	
	2	Tr-02/160 MVA, 220/132 kV	26.50	06:00	17-05-2021	0.10	15:00	12-05-2021	16.50	
Haveli Kharagpur GIS	3	Tr-01/50 MVA, 132/33 kV	0.90	19:00	03-05-2021	0.20	01:00	01-05-2021	0.56	
	4	Tr-02/50 MVA, 132/33 kV	19.10	07:00	12-05-2021	0.8	02:00	28-05-2021	8.08	
	1	Tr-01/160 MVA, 220/132 kV	7.00	03:00	19-05-2021	1.00	20:00	12-05-2021	4.21	
	2	Tr-02/160 MVA, 220/132 kV	5.80	22:00	16-05-2021	1.10	06:00	02-05-2021	3.26	
Goradih GIS	3	Tr-01/50 MVA, 132/33 kV	8.40	22:00	16-05-2021	0.3	04:00	28-05-2021	5.00	
	4	Tr-02/50 MVA, 132/33 kV	4.30	23:00	17-05-2021	0.2	20:00	03-05-2021	2.44	
	1	Tr-01/160 MVA, 220/132 kV	44.20	12:00	04-05-2021	10.40	21:00	03-05-2021	20.56	
	2	Tr-02/160 MVA, 220/132 kV	Not Commissioned							
Mokama GIS	3	Tr-01/50 MVA, 132/33 kV	12.90	00:00	03-05-2021	0.00	17:00	03-05-2021	4.19	
	4	Tr-02/50 MVA, 132/33 kV	14.40	19:00	23-05-2021	0.00	00:00	01-05-2021	5.02	
	1	Tr-01/160 MVA, 220/132 kV	Not Commissioned							
	2	Tr-02/160 MVA, 220/132 kV	37.50	20:00	16-05-2021	0.00	01:00	01-05-2021	16.24	
Dumraon GIS	3	Tr-01/80 MVA, 132/33 kV	Not Commissioned							
	4	Tr-02/80 MVA, 132/33 kV	0	0	0	0	0	0	0.00	System connected but no power flow
Note	1	Tr-01/160 MVA, 220/132 kV	87.25	21:00	17-05-2021	3.37	00:00	28-05-2021	52.61	
	2	Tr-01/80 MVA, 132/33 kV	6.84	21:00	16-05-2021	0.06	18:00	11-05-2021	3.13	

Negative sign(-) denote import of power and positive sign (+) denote export of power .For example (-) 139.82 MW in Hajipur - Amnour ckt-2 denotes import of 139.82 MW from Hajipur S/S to Amnour S/S and 68.27 MW in Amnour -Siwan ckt-1 denotes 68.27 MW from Amnour to Siwan S/S.



BIHAR GRID COMPANY LIMITED
Loading level of Transmission Assets

Month: JUNE 2021

Voltage Grade	S. No	Name of TL	Element Loading Details (in MW)							Remark
			Max	Time	Date	Min	Time	Date	Avg	
A. Power Flow in 220kV Transmission Line										
220 kV (26 nos.)	1	Amnour (BG) - Hajipur (BS)ckt-01	-177.9	03:00	26-06-2021	-0.4	20:00	01-06-2021	-84.65	
	2	Amnour (BG) - Hajipur (BS)ckt-02	-128.94	00:00	01-06-2021	-0.6	03:00	26-06-2021	-82.23	
	3	Patna (PG) - Khagaul (BS) ckt-02	-110.27	22:00	07-06-2021	-5.97	16:00	01-06-2021	-79.61	
	4	Patna (PG) - Khagaul (BS) ckt-03	-109.66	22:00	07-06-2021	-5.75	16:00	01-06-2021	-79.06	
	5	Khijirsarai (BG) - Biharsharif (BS) ckt-01	-143.86	09:00	03-06-2021	0.02	18:00	05-06-2021	-55.53	
	6	Khijirsarai (BG) - Biharsharif (BS) ckt-02	-136.61	07:00	07-06-2021	0.02	18:00	05-06-2021	-54.63	
	7	Khijirsarai (BG) - Bodh Gaya (BS) ckt-01	-89.24	22:00	26-06-2021	0.03	11:00	02-06-2021	-5.32	
	8	Khijirsarai (BG) - Bodh Gaya (BS) ckt-02	-94.46	21:00	05-06-2021	-0.04	16:00	13-06-2021	-11.59	
	9	Khijirsarai (BG) - Gaya (PG) ckt-01	-171.04	20:00	24-06-2021	2.23	06:00	02-06-2021	-70.73	
	10	Khijirsarai (BG) - Gaya (PG) ckt-02	-171.31	20:00	24-06-2021	2.09	06:00	02-06-2021	-70.83	
	11	Khijirsarai (BG) - Narhat (BG) ckt-01	96.82	20:00	28-06-2021	1.88	18:00	01-06-2021	54.94	
	12	Khijirsarai (BG) - Narhat (BG) ckt-02	96.62	20:00	28-06-2021	1.92	18:00	01-06-2021	54.91	
	13	Narhat (BG) - Sekhopur Sarai (BG) ckt-01	55.95	17:00	30-06-2021	0.89	18:00	01-06-2021	23.39	
	14	Narhat (BG) - Sekhopur Sarai (BG) ckt-02	51.75	22:00	13-06-2021	0.90	18:00	01-06-2021	23.08	
	15	Sekhopur Sarai (BG) - Haveli Kharagpur (BG) ckt-01	57.50	22:00	13-06-2021	-0.4	11:00	25-06-2021	7.78	
	16	Sekhopur Sarai (BG) - Haveli Kharagpur (BG) ckt-02	4.90	23:00	27-06-2021	-0.1	09:00	30-06-2021	0.98	
	17	Haveli Kharagpur (BG) - Goradith (BG) ckt-01	47.10	22:00	13-06-2021	35.10	21:00	13-06-2021	40.13	
	18	Haveli Kharagpur (BG) - Goradith (BG) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	19	Mokama (BG) - Biharsharif (BS) ckt-1	-125.80	03:00	18-06-2021	0.00	07:00	01-06-2021	-33.07	
	20	Mokama (BG) - Biharsharif (BS) ckt-2	-126.40	03:00	18-06-2021	0.00	07:00	01-06-2021	-33.30	
	21	Mokama (BG) - BTPS ckt-1	-80.50	08:00	30-06-2021	0.00	05:00	01-06-2021	-20.33	
	22	Mokama (BG) - BTPS ckt-2	-80.50	08:00	30-06-2021	0.00	05:00	01-06-2021	-20.11	
	23	Dumraon New (BG) - Ara (PG) ckt-01	24.57	21:00	10-06-2021	0.03	21:00	25-06-2021	20.36	
	24	Dumraon New (BG) - Ara (PG) ckt-02	24.71	21:00	10-06-2021	-0.02	16:00	06-06-2021	20.30	
	25	Dumraon New (BG) - Nadokhar (BS) ckt-01	-71.43	21:00	10-06-2021	0.36	16:00	27-06-2021	-32.46	
	26	Dumraon New (BG) - Nadokhar (BS) ckt-02	-71.96	21:00	10-06-2021	-0.46	16:00	27-06-2021	-32.71	
B. Power Flow in 132 kV Transmission Line										
132 kV (29 nos.)	1	Amnour (BG) - Siwan (BS) ckt-01	70.89	15:00	09-06-2021	0.01	17:00	01-06-2021	36.31	
	2	Amnour (BG) - Siwan (BS) ckt-02	87.55	11:00	09-06-2021	0.02	06:00	09-06-2021	34.95	
	3	Amnour (BG) - Chhapra (BS) ckt-01	63.05	21:00	23-06-2021	0	16:00	01-06-2021	34.13	
	4	Amnour (BG) - Chhapra (BS) ckt-02	63.23	21:00	23-06-2021	0.01	19:00	01-06-2021	33.03	
	5	Khijirsarai (BG) - Bodh Gaya (BS) ckt-03	0.10	01:00	17-06-2021	0	12:00	09-06-2021	0.01	
	6	Khijirsarai (BG) - Wajirganj (BS) ckt-01	40.01	22:00	27-06-2021	0.01	12:00	28-06-2021	25.17	
	7	Khijirsarai (BG) - Hulaganj (BS) ckt-01	51.60	18:00	05-06-2021	0.14	17:00	01-06-2021	19.94	
	8	Khijirsarai (BG) - Jehanabad (BS) ckt-01	80.02	20:00	08-06-2021	0.91	16:00	01-06-2021	52.57	
	9	Khijirsarai (BG) - Jehanabad (BS) ckt-02	101.86	23:00	03-06-2021	0.9	16:00	01-06-2021	52.66	
	10	Narhat (BG) - Nawadah (BS) ckt-01	53.19	20:00	29-06-2021	0.38	18:00	01-06-2021	23.24	
	11	Narhat (BG) - Nawadah (BS) ckt-02	65.26	01:00	03-06-2021	0.37	17:00	01-06-2021	24.01	
	12	Haveli Kharagpur (BG) - Sultanganj (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	13	Haveli Kharagpur (BG) - Sultanganj (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	14	Haveli Kharagpur (BG) - Lakhisarai (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	15	Haveli Kharagpur (BG) - Lakhisarai (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	16	Haveli Kharagpur (BG) - Jamalpur (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	17	Haveli Kharagpur (BG) - Jamalpur (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	18	Sekhopur Sarai (BG) - Sekhpura (BS) ckt-01	20.10	19:00	28-06-2021	1.0	02:00	02-06-2021	13.23	
	19	Sekhopur Sarai (BG) - Sekhpura (BS) ckt-02	20.40	21:00	30-06-2021	1.0	02:00	02-06-2021	13.31	
	20	Sekhopur Sarai (BG) - Biharsharif (BS) TL	0	0	0	0	0	0	0.00	System connected but no power flow
	21	Goradith (BG) - Sultanganj (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	22	Goradith (BG) - Sultanganj (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	23	Goradith (BG) - Kahalgaoon (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	24	Goradith (BG) - Kahalgaoon (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	25	Goradith (BG) - Sabour (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	26	Goradith (BG) - Sabour (BS) ckt-02	36.40	21:00	13-06-2021	0.00	18:00	01-06-2021	12.48	
	27	Mokama (BG) - Hatidah (BS) ckt-01	42.00	20:00	19-06-2021	0.00	17:00	01-06-2021	11.01	
	28	Mokama (BG) - Hatidah (BS) ckt-02	53.40	04:00	07-06-2021	0.00	17:00	01-06-2021	14.12	
	29	Dumraon New (BG) - Dumraon Old (BS) ckt-2	87.19	20:00	03-06-2021	2.72	16:00	01-06-2021	56.70	

Substation Details	S.No.	MVA Capacity	Element Loading Details (in MW)							Remark
			Max	Time	Date	Min	Time	Date	Avg	
C. Power Flow in Transformers										
Amnour GIS	1	Tr-01/160 MVA, 220/132 kV	128.66	00:00	01-06-2021	0.04	19:00	01-06-2021	80.76	
	2	Tr-02/160 MVA, 220/132 kV	130.27	00:00	01-06-2021	0.05	19:00	01-06-2021	81.74	
	3	Tr-01/50 MVA, 132/33 kV	27.44	01:00	01-06-2021	0.02	00:00	04-06-2021	13.50	
	4	Tr-02/50 MVA, 132/33 kV	45.5	02:00	28-06-2021	0.06	16:00	01-06-2021	15.16	
Khijirsarai GIS	1	Tr-01/160 MVA, 220/132 kV	121.13	20:00	08-06-2021	1.06	17:00	01-06-2021	77.98	
	2	Tr-02/160 MVA, 220/132 kV	124.68	20:00	08-06-2021	1.85	17:00	01-06-2021	80.66	
	3	Tr-01/50 MVA, 132/33 kV			Not Commissioned					
	4	Tr-02/50 MVA, 132/33 kV	9.05	15:00	28-06-2021	0.03	21:00	01-06-2021	3.67	
	5	Tr-03/50 MVA, 132/33 kV	7.61	20:00	30-06-2021	0.07	17:00	01-06-2021	4.52	
Narhat GIS	1	Tr-01/160 MVA, 220/132 kV	65.68	20:00	28-06-2021	0.87	15:00	02-06-2021	31.92	
	2	Tr-02/160 MVA, 220/132 kV	63.13	20:00	28-06-2021	0.02	18:00	01-06-2021	30.66	
	3	Tr-01/50 MVA, 132/33 kV	7.63	15:00	01-06-2021	0.02	22:00	02-06-2021	3.76	
	4	Tr-02/50 MVA, 132/33 kV	26.39	22:00	14-06-2021	0.03	19:00	15-06-2021	25.87	
Sekhopur Sarai GIS	1	Tr-01/160 MVA, 220/132 kV	30.00	19:00	28-06-2021	3.80	07:00	02-06-2021	19.29	
	2	Tr-02/160 MVA, 220/132 kV	25.70	19:00	28-06-2021	4.10	07:00	02-06-2021	18.02	
	3	Tr-01/50 MVA, 132/33 kV	0.90	20:00	03-06-2021	0.10	06:00	09-06-2021	0.46	
	4	Tr-02/50 MVA, 132/33 kV	23.70	07:00	28-06-2021	0.8	22:00	01-06-2021	10.23	
Haveli Kharagpur GIS	1	Tr-01/160 MVA, 220/132 kV	7.20	22:00	28-06-2021	1.20	11:00	29-06-2021	4.74	
	2	Tr-02/160 MVA, 220/132 kV	5.90	22:00	28-06-2021	1.10	16:00	28-06-2021	3.80	
	3	Tr-01/50 MVA, 132/33 kV	9.00	22:00	29-06-2021	1.2	20:00	01-06-2021	5.85	
	4	Tr-02/50 MVA, 132/33 kV	4.40	22:00	28-06-2021	1	12:00	25-06-2021	2.66	
Goradith GIS	1	Tr-01/160 MVA, 220/132 kV	47.20	21:00	13-06-2021	1.30	03:00	01-06-2021	20.08	
	2	Tr-02/160 MVA, 220/132 kV			Not Commissioned					
	3	Tr-01/50 MVA, 132/33 kV	12.80	20:00	08-06-2021	0.00	18:00	01-06-2021	3.63	
	4	Tr-02/50 MVA, 132/33 kV	15.00	20:00	05-06-2021	0.00	18:00	01-06-2021	8.86	
Mokama GIS	1	Tr-01/160 MVA, 220/132 kV			Not Commissioned					
	2	Tr-02/160 MVA, 220/132 kV	84.00	20:00	29-06-2021	0.00	17:00	01-06-2021	25.20	
	3	Tr-01/80 MVA, 132/33 kV			Not Commissioned					
	4	Tr-02/80 MVA, 132/33 kV	0	0	0	0	0	0	0.00	System connected but no power flow
Dumraon GIS	1	Tr-01/160 MVA, 220/132 kV	101.36	21:00	29-06-2021	3	16:00	01-06-2021	59.70	
	2	Tr-01/80 MVA, 132/33 kV	18.83	21:00	08-06-2021	0.04	15:00	27-06-2021	4.22	
Note	Negative sign(-) denote import of power and positive sign (+) denote export of power. For example (-) 177.90 MW in Amnour - Hajipur ckt-2 denotes import of 177.90 MW from Hajipur to Amnour and 70.89 MW in Amnour -Siwan ckt-1 denotes 70.89 MW from Amnour to Siwan S/S.									

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BIHAR GRID COMPANY LIMITED

Loading level of Transmission Assets

Month: JULY 2021

Voltage Grade	S. No	Name of TL	Element Loading Details (in MW)							Remark
			Max	Time	Date	Min	Time	Date	Avg	
A. Power Flow in 220kV transmission line										
220 kV (26 nos. Ckts)	1	Amnour (BG) - Hajipur (BS)ckt-01	-123.39	15:00	06-07-2021	-26.46	15:00	31-07-2021	-88.81	
	2	Amnour (BG) - Hajipur (BS)ckt-02	-133.23	11:00	02-07-2021	-25.85	15:00	31-07-2021	-89.01	
	3	Patna (PG) - Khagaul (BS) ckt-02	-124.89	23:00	16-07-2021	-43.54	13:00	31-07-2021	-94.31	
	4	Patna (PG) - Khagaul (BS) ckt-03	-124.89	23:00	14-07-2021	-43.56	13:00	31-07-2021	-93.85	
	5	Khajirsarai (BG) - Biharsharif (BS) ckt-01	-177.78	22:00	25-07-2021	3.12	01:00	31-07-2021	-75.58	
	6	Khajirsarai (BG) - Biharsharif (BS) ckt-02	-176.83	22:00	25-07-2021	-2.64	00:00	31-07-2021	-75.07	
	7	Khajirsarai (BG) - Bodh Gaya (BS) ckt-01	-101.56	20:00	02-07-2021	0.02	11:00	08-07-2021	-5.67	
	8	Khajirsarai (BG) - Bodh Gaya (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	9	Khajirsarai (BG) - Gaya (PG) ckt-01	-139.09	23:00	26-07-2021	-1.01	08:00	31-07-2021	-62.91	
	10	Khajirsarai (BG) - Gaya (PG) ckt-02	-139.17	23:00	26-07-2021	-0.76	08:00	31-07-2021	-63.73	
	11	Khajirsarai (BG) - Narhat (BG) ckt-01	98.67	21:00	06-07-2021	0.05	20:00	08-07-2021	57.77	
	12	Khajirsarai (BG) - Narhat (BG) ckt-02	122.99	08:00	29-07-2021	0.21	19:00	08-07-2021	62.35	
	13	Narhat (BG) - Sekhopur Sarai (BG) ckt-01	59.25	14:00	27-07-2021	9.29	16:00	06-07-2021	14.19	
	14	Narhat (BG) - Sekhopur Sarai (BG) ckt-02	68.49	20:00	21-07-2021	5.11	19:00	20-07-2021	26.36	
	15	Sekhopur Sarai (BG) - Haveli Kharagpur (BG) ckt-01	5.00	01:00	01-07-2021	0.1	08:00	02-07-2021	0.20	
	16	Sekhopur Sarai (BG) - Haveli Kharagpur (BG) ckt-02	47.80	10:00	20-07-2021	0.1	20:00	13-07-2021	10.00	
	17	Haveli Kharagpur (BG) - Goradih (BG) ckt-01	18.60	19:00	10-07-2021	3.40	19:00	09-07-2021	10.95	
	18	Haveli Kharagpur (BG) - Goradih (BG) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	19	Mokama (BG) - Biharsharif (BS) ckt-1	-177.10	00:00	10-07-2021	0.00	12:00	01-07-2021	-48.17	
	20	Mokama (BG) - Biharsharif (BS) ckt-2	-178.30	00:00	10-07-2021	0.00	12:00	01-07-2021	-48.74	
	21	Mokama (BG) - BTPS ckt-1	-73.60	07:00	01-07-2021	0.00	19:00	01-07-2021	-36.97	
	22	Mokama (BG) - BTPS ckt-2	-76.10	07:00	01-07-2021	0.00	19:00	01-07-2021	-35.56	
	23	Dumraon New (BG) - Ara (PG) ckt-01	33.74	19:00	12-07-2021	-0.01	01:00	07-07-2021	4.94	
	24	Dumraon New (BG) - Ara (PG) ckt-02	33.8	19:00	12-07-2021	-0.01	01:00	07-07-2021	4.87	
	25	Dumraon New (BG) - Nadokhar (BS) ckt-01	-84.12	19:00	12-07-2021	0.53	10:00	31-07-2021	-35.78	
	26	Dumraon New (BG) - Nadokhar (BS) ckt-02	-84.87	19:00	12-07-2021	0.51	10:00	31-07-2021	-36.02	
B. Power Flow in 132 kV transmission line										
132 kV (29 nos. ckts)	1	Amnour (BG) - Siwan (BS) ckt-01	62.52	13:00	05-07-2021	8.39	10:00	08-07-2021	35.41	
	2	Amnour (BG) - Siwan (BS) ckt-02	69.33	13:00	02-07-2021	8.44	10:00	08-07-2021	36.56	
	3	Amnour (BG) - Chhapra (BS) ckt-01	58.88	20:00	31-07-2021	13.63	14:00	23-07-2021	35.84	
	4	Amnour (BG) - Chhapra (BS) ckt-02	68.33	06:00	02-07-2021	13.65	14:00	01-07-2021	35.96	
	5	Khajirsarai (BG) - Bodh Gaya (BS) ckt-03	0.09	22:00	21-07-2021	0.01	01:00	01-07-2021	0.05	
	6	Khajirsarai (BG) - Wajirganj (BS) ckt-01	58.55	09:00	16-07-2021	0.01	00:00	08-07-2021	26.87	
	7	Khajirsarai (BG) - Hulasganj (BS) ckt-01	39.51	20:00	01-07-2021	0.07	12:00	04-07-2021	9.97	
	8	Khajirsarai (BG) - Jehanabad (BS) ckt-01	94.48	20:00	13-07-2021	2.01	04:00	31-07-2021	56.79	
	9	Khajirsarai (BG) - Jehanabad (BS) ckt-02	99.30	14:00	29-07-2021	2	04:00	31-07-2021	57.74	
	10	Narhat (BG) - Nawadah (BS) ckt-01	59.56	20:00	01-07-2021	0.01	18:00	23-07-2021	33.41	
	11	Narhat (BG) - Nawadah (BS) ckt-02	54.00	20:00	01-07-2021	0.01	18:00	23-07-2021	29.48	
	12	Haveli Kharagpur (BG) - Sultanganj (BS) ckt-01	-14.10	20:00	31-07-2021	-1.70	06:00	31-07-2021	-10.16	
	13	Haveli Kharagpur (BG) - Sultanganj (BS) ckt-02	-14.00	20:00	31-07-2021	-1.70	06:00	31-07-2021	-10.16	
	14	Haveli Kharagpur (BG) - Lakhisarai (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	15	Haveli Kharagpur (BG) - Lakhisarai (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	16	Haveli Kharagpur (BG) - Jamalpur (BS) ckt-01	8.60	20:00	31-07-2021	1.40	17:00	31-07-2021	5.73	
	17	Haveli Kharagpur (BG) - Jamalpur (BS) ckt-02	40.80	10:00	20-07-2021	1.60	17:00	31-07-2021	20.54	
	18	Sekhopur Sarai (BG) - Sekhpura (BS) ckt-01	27.60	20:00	25-07-2021	2.3	13:00	28-07-2021	10.03	
	19	Sekhopur Sarai (BG) - Sekhpura (BS) ckt-02	26.50	07:00	27-07-2021	2.3	13:00	28-07-2021	10.09	
	20	Sekhopur Sarai (BG) - Biharsharif (BS) TL	0	0	0	0	0	0	0.00	System connected but no power flow
	21	Goradih (BG) - Sultanganj (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	22	Goradih (BG) - Sultanganj (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	23	Goradih (BG) - Kahalgaon (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	24	Goradih (BG) - Kahalgaon (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow
	25	Goradih (BG) - Sabour (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow
	26	Goradih (BG) - Sabour (BS) ckt-02	28.40	21:00	06-07-2021	0.50	15:00	05-07-2021	12.31	
	27	Mokama (BG) - Halidah (BS) ckt-01	19.40	08:00	07-07-2021	0.00	12:00	01-07-2021	11.83	
	28	Mokama (BG) - Halidah (BS) ckt-02	19.50	08:00	07-07-2021	0.00	12:00	01-07-2021	11.97	
	29	Dumraon New (BG) - Dumraon Old (BS) ckt-2	100.40	13:00	14-07-2021	10.57	08:00	31-07-2021	69.55	
C. Power Flow in transformers										
Substation Details	S.No.	MVA Capacity	Element Loading Details (in MW)							Remark
			Max	Time	Date	Min	Time	Date	Avg	
Amnour GIS	1	Tr-01/160 MVA, 220/132 kV	122.36	15:00	06-07-2021	25.72	15:00	31-07-2021	85.53	
	2	Tr-02/160 MVA, 220/132 kV	123.95	15:00	06-07-2021	26.05	15:00	31-07-2021	89.67	
	3	Tr-01/50 MVA, 132/33 kV	25.42	00:00	07-07-2021	0.02	01:00	11-07-2021	16.42	
	4	Tr-02/50 MVA, 132/33 kV	47.57	02:00	11-07-2021	1.97	09:00	31-07-2021	18.04	
Khajirsarai GIS	1	Tr-01/160 MVA, 220/132 kV	129.53	19:00	13-07-2021	2.65	07:00	31-07-2021	80.02	
	2	Tr-02/160 MVA, 220/132 kV	133.31	19:00	13-07-2021	3.5	07:00	31-07-2021	82.65	
	3	Tr-01/50 MVA, 132/33 kV								Not Commissioned
	4	Tr-02/50 MVA, 132/33 kV	7.95	06:00	17-07-2021	0.03	06:00	01-07-2021	4.71	
	5	Tr-03/50 MVA, 132/33 kV	11.64	12:00	25-07-2021	0.07	06:00	21-07-2021	6.46	
Narhat GIS	1	Tr-01/160 MVA, 220/132 kV	95.89	21:00	25-07-2021	2.83	15:00	23-07-2021	39.16	
	2	Tr-02/160 MVA, 220/132 kV	84.86	20:00	09-07-2021	1.50	19:00	26-07-2021	39.48	
	3	Tr-01/50 MVA, 132/33 kV	9.50	07:00	26-07-2021	0.08	23:00	03-07-2021	9.07	
	4	Tr-02/50 MVA, 132/33 kV	26.48	14:00	24-07-2021	0.02	12:00	31-07-2021	21.73	
Sekhopur Sarai GIS	1	Tr-01/160 MVA, 220/132 kV	34.20	07:00	27-07-2021	0.10	16:00	17-07-2021	15.01	
	2	Tr-02/160 MVA, 220/132 kV	35.2	00:00	27-07-2021	0.1	00:00	17-07-2021	15.01	
	3	Tr-01/50 MVA, 132/33 kV	11.50	00:00	04-07-2021	0.20	00:00	22-07-2021	5.01	
	4	Tr-02/50 MVA, 132/33 kV	12.60	19:00	04-07-2021	0.5	02:00	22-07-2021	4.81	
Haveli Kharagpur GIS	1	Tr-01/160 MVA, 220/132 kV	43.00	10:00	20-07-2021	0.90	19:00	19-07-2021	3.60	
	2	Tr-02/160 MVA, 220/132 kV	10.70	21:00	12-07-2021	1.30	19:00	26-07-2021	5.54	
	3	Tr-01/50 MVA, 132/33 kV	10.40	21:00	12-07-2021	0.2	07:00	24-07-2021	5.73	
	4	Tr-02/50 MVA, 132/33 kV	12.00	22:00	05-07-2021	0.5	15:00	01-07-2021	3.15	
Goradih GIS	1	Tr-01/160 MVA, 220/132 kV	18.60	19:00	10-07-2021	3.40	19:00	09-07-2021	10.93	
	2	Tr-02/160 MVA, 220/132 kV								Not Commissioned
	3	Tr-01/50 MVA, 132/33 kV	14.03	00:00	10-07-2021	0.01	14:00	16-07-2021	3.26	
	4	Tr-02/50 MVA, 132/33 kV	13.02	10:00	10-07-2021	0.01	00:00	01-07-2021	9.92	
Mokama GIS	1	Tr-01/160 MVA, 220/132 kV								Not Commissioned
	2	Tr-02/160 MVA, 220/132 kV	38.30	08:00	07-07-2021	0.00	15:00	17-07-2021	23.89	
	3	Tr-01/80 MVA, 132/33 kV								Not Commissioned
	4	Tr-02/80 MVA, 132/33 kV	0	0	0	0	0	0	0.00	System connected but no power flow
Dumraon GIS	1	Tr-01/160 MVA, 220/132 kV	116.25	13:00	14-07-2021	14.31	11:00	08-07-2021	71.55	
	2	Tr-01/80 MVA, 132/33 kV	19.75	20:00	29-07-2021	0.04	18:00	17-07-2021	4.26	
Note	Negative sign(-) denote import of power and positive sign (+) denote export of power. For example (-) 123.39 MW in Hajipur - Amnour ckt-1 denotes import of 123.39 MW from Hajipur S/S to Amnour S/S and 62.52 MW in Amnour -Siwan ckt-1 denotes 62.52 MW from Amnour to Siwan S/S.									

BIHAR GRID COMPANY LIMITED
Loading level of Transmission Assets

Voltage Grade	S. No	Name of TL	Element Loading Details (in MW)							Avg	Remark
			Max	Time	Date	Min	Time	Date			
			Month: August'2021								
A. Power Flow in 220kV transmission line											
220 kV (26 nos. Ckts)	1	Amnour (BG) - Hajipur (BS)ckt-01	-132.76	23:00	17-08-2021	-28.79	13:00	27-08-2021	-90.96		
	2	Amnour (BG) - Hajipur (BS)ckt-02	-132.44	22:00	17-08-2021	-28.87	13:00	27-08-2021	-88.97		
	3	Patna (PG) - Khagaul (BS) ckt-02	-187.94	20:00	06-08-2021	-54.46	09:00	18-08-2021	-97.80		
	4	Patna (PG) - Khagaul (BS) ckt-03	-187.2	20:00	06-08-2021	-54.04	09:00	18-08-2021	-97.36		
	5	Khijirsarai (BG) - Biharsharif (BS) ckt-01	-153.32	07:00	15-08-2021	-33.36	00:00	10-08-2021	-83.43		
	6	Khijirsarai (BG) - Biharsharif (BS) ckt-02	-154.24	07:00	15-08-2021	-32.09	00:00	10-08-2021	-82.85		
	7	Khijirsarai (BG) - Bodh Gaya (BS) ckt-01	0.44	15:00	29-08-2021	0.01	10:00	01-08-2021	0.02		
	8	Khijirsarai (BG) - Bodh Gaya (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow	
	9	Khijirsarai (BG) - Gaya (PG) ckt-01	-135.88	20:00	20-08-2021	-12.18	07:00	07-08-2021	-69.84		
	10	Khijirsarai (BG) - Gaya (PG) ckt-02	-135.82	20:00	20-08-2021	-12.54	07:00	07-08-2021	-70.56		
	11	Khijirsarai (BG) - Narhat (BG) ckt-01	125.69	20:00	14-08-2021	36.41	05:00	04-08-2021	81.45		
	12	Khijirsarai (BG) - Narhat (BG) ckt-02	125.52	20:00	14-08-2021	36.34	05:00	04-08-2021	80.92		
	13	Narhat (BG) - Sekhopur Sarai (BG) ckt-01	74.24	20:00	14-08-2021	22.44	21:00	21-08-2021	50.34		
	14	Narhat (BG) - Sekhopur Sarai (BG) ckt-02	74.15	20:00	14-08-2021	22.44	21:00	21-08-2021	50.04		
	15	Sekhopur Sarai (BG) - Haveli Kharagpur (BG) ckt-01	46.80	21:00	17-08-2021	5.7	00:00	30-08-2021	16.13		
	16	Sekhopur Sarai (BG) - Haveli Kharagpur (BG) ckt-02	84.00	21:00	13-08-2021	1.7	11:00	09-08-2021	25.41		
	17	Haveli Kharagpur (BG) - Goradhi (BG) ckt-01	28.20	21:00	11-08-2021	2.00	10:00	19-08-2021	5.75		
	18	Haveli Kharagpur (BG) - Goradhi (BG) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow	
	19	Mokama (BG) - Biharsharif (BS) ckt-1	-123.60	22:00	26-08-2021	0.00	07:00	01-08-2021	-36.20		
	20	Mokama (BG) - Biharsharif (BS) ckt-2	-124.60	22:00	02-08-2021	0.00	07:00	01-08-2021	-36.40		
	21	Mokama (BG) - BTPS ckt-1	111.40	22:00	12-08-2021	0.00	06:00	01-08-2021	24.34		
	22	Mokama (BG) - BTPS ckt-2	111.20	22:00	12-08-2021	0.00	06:00	01-08-2021	23.02		
	23	Dumraon New (BG) - Ara (PG) ckt-01	-31.29	07:00	31-08-2021	-0.01	13:00	19-08-2021	-8.74		
	24	Dumraon New (BG) - Ara (PG) ckt-02	-31.3	07:00	31-08-2021	-0.02	22:00	22-08-2021	-8.70		
	25	Dumraon New (BG) - Nadokhar (BS) ckt-01	-59.77	20:00	11-08-2021	0.39	16:00	23-08-2021	-28.20		
	26	Dumraon New (BG) - Nadokhar (BS) ckt-02	-60.35	20:00	11-08-2021	0.62	16:00	23-08-2021	-28.41		
B. Power Flow in 132 kV transmission line											
132 kV (29 nos. ckts)	1	Amnour (BG) - Siwan (BS) ckt-01	69.38	19:00	25-08-2021	0.01	13:00	27-08-2021	38.53		
	2	Amnour (BG) - Siwan (BS) ckt-02	70.12	19:00	25-08-2021	0.78	13:00	27-08-2021	38.77		
	3	Amnour (BG) - Chhapra (BS) ckt-01	69.71	01:00	17-08-2021	9.36	17:00	25-08-2021	34.57		
	4	Amnour (BG) - Chhapra (BS) ckt-02	69.1	01:00	17-08-2021	9.35	17:00	25-08-2021	34.54		
	5	Khijirsarai (BG) - Bodh Gaya (BS) ckt-01	50.72	20:00	20-08-2021	0	09:00	01-08-2021	0.30		
	6	Khijirsarai (BG) - Wajirganj (BS) ckt-01	49.28	19:00	22-08-2021	0.06	18:00	10-08-2021	35.20		
	7	Khijirsarai (BG) - Hulasganj (BS) ckt-01	34.36	10:00	23-08-2021	0	00:00	01-08-2021	0.19		
	8	Khijirsarai (BG) - Jehanabad (BS) ckt-01	82.87	23:00	16-08-2021	8.4	13:00	28-08-2021	48.89		
	9	Khijirsarai (BG) - Jehanabad (BS) ckt-02	110.25	16:00	06-08-2021	8.41	13:00	28-08-2021	48.91		
	10	Narhat (BG) - Nawadah (BS) ckt-01	42.73	20:00	22-08-2021	1.96	20:00	31-08-2021	29.21		
	11	Narhat (BG) - Nawadah (BS) ckt-02	38.56	21:00	24-08-2021	1.76	20:00	31-08-2021	26.88		
	12	Haveli Kharagpur (BG) - Sultanganj (BS) ckt-01	-14.20	19:00	02-08-2021	-2.20	15:00	01-08-2021	-8.45		
	13	Haveli Kharagpur (BG) - Sultanganj (BS) ckt-02	-14.40	19:00	02-08-2021	-2.30	15:00	01-08-2021	-8.45		
	14	Haveli Kharagpur (BG) - Lakhisarai (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow	
	15	Haveli Kharagpur (BG) - Lakhisarai (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow	
	16	Haveli Kharagpur (BG) - Jamalpur (BS) ckt-01	27.50	15:00	23-08-2021	1.40	14:00	03-08-2021	13.42		
	17	Haveli Kharagpur (BG) - Jamalpur (BS) ckt-02	26.70	21:00	25-08-2021	0.70	05:00	01-08-2021	13.10		
	18	Sekhopur Sarai (BG) - Sekhpura (BS) ckt-01	32.80	16:00	13-08-2021	4.9	10:00	13-08-2021	16.90		
	19	Sekhopur Sarai (BG) - Sekhpura (BS) ckt-02	32.90	16:00	13-08-2021	4.9	10:00	13-08-2021	17.05		
	20	Sekhopur Sarai (BG) - Biharsharif (BS) TL	0	0	0	0	0	0	0.00	System connected but no power flow	
	21	Goradhi (BG) - Sultanganj (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow	
	22	Goradhi (BG) - Sultanganj (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow	
	23	Goradhi (BG) - Kahalgaon (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow	
	24	Goradhi (BG) - Kahalgaon (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow	
	25	Goradhi (BG) - Sabour (BS) ckt-01	-27.50	21:00	21-08-2021	-1.30	15:00	22-08-2021	-6.61		
	26	Goradhi (BG) - Sabour (BS) ckt-02	-27.70	20:00	06-08-2021	-0.70	06:00	04-08-2021	-3.97		
	27	Mokama (BG) - Hatidah (BS) ckt-01	23.40	12:00	27-08-2021	0.00	14:00	01-08-2021	12.17		
	28	Mokama (BG) - Hatidah (BS) ckt-02	23.50	12:00	27-08-2021	0.00	14:00	01-08-2021	12.31		
	29	Dumraon New (BG) - Dumraon Old (BS) ckt-2	108.13	21:00	13-08-2021	18.91	15:00	01-08-2021	60.72		

Substation Details	S.No.	MVA Capacity	Element Loading Details (in MW)							Avg	Remark
			Max	Time	Date	Min	Time	Date			
			Month: August'2021								
C. Power Flow in transformers											
Amnour GIS	1	Tr-01/160 MVA, 220/132 kV	131.71	22:00	17-08-2021	28.86	13:00	27-08-2021	89.90		
	2	Tr-02/160 MVA, 220/132 kV	133.26	22:00	17-08-2021	28.39	13:00	27-08-2021	91.60		
	3	Tr-01/50 MVA, 132/33 kV	27.32	22:00	27-08-2021	0.03	18:00	05-08-2021	17.41		
	4	Tr-02/50 MVA, 132/33 kV	36.26	02:00	15-08-2021	0.07	14:00	24-08-2021	17.73		
Khijirsarai GIS	1	Tr-01/160 MVA, 220/132 kV	124.64	20:00	20-08-2021	14.16	22:00	16-08-2021	70.87		
	2	Tr-02/160 MVA, 220/132 kV	128.29	20:00	20-08-2021	15.2	22:00	16-08-2021	73.24		
	3	Tr-01/50 MVA, 132/33 kV	Not Commissioned								
	4	Tr-02/50 MVA, 132/33 kV	6.59	07:00	21-08-2021	0.03	21:00	02-08-2021	4.63		
	5	Tr-03/50 MVA, 132/33 kV	14.55	07:00	08-08-2021	0.06	09:00	13-08-2021	5.80		
Narhat GIS	1	Tr-01/160 MVA, 220/132 kV	73.59	14:00	02-08-2021	0.07	16:00	03-08-2021	37.91		
	2	Tr-02/160 MVA, 220/132 kV	78.41	17:00	02-08-2021	0.05	12:00	03-08-2021	36.74		
	3	Tr-01/50 MVA, 132/33 kV	22.65	05:00	17-08-2021	0.03	16:00	03-08-2021	13.89		
	4	Tr-02/50 MVA, 132/33 kV	21.81	08:00	25-08-2021	0.03	20:00	02-08-2021	20.18		
Sekhopur Sarai GIS	1	Tr-01/160 MVA, 220/132 kV	31.60	08:00	21-08-2021	3.00	17:00	25-08-2021	23.67		
	2	Tr-02/160 MVA, 220/132 kV	30.1	08:00	21-08-2021	2.8	17:00	25-08-2021	20.10		
	3	Tr-01/50 MVA, 132/33 kV	1.10	07:00	22-08-2021	0.20	11:00	12-08-2021	0.45		
	4	Tr-02/50 MVA, 132/33 kV	23.10	20:00	17-08-2021	1.0	17:00	28-08-2021	10.10		
Haveli Kharagpur GIS	1	Tr-01/160 MVA, 220/132 kV	34.10	21:00	25-08-2021	1.10	16:00	23-08-2021	18.19		
	2	Tr-02/160 MVA, 220/132 kV	32.70	21:00	25-08-2021	1.10	06:00	07-08-2021	17.05		
	3	Tr-01/50 MVA, 132/33 kV	13.90	21:00	01-08-2021	0.5	16:00	20-08-2021	6.76		
	4	Tr-02/50 MVA, 132/33 kV	4.90	22:00	21-08-2021	1	14:00	24-08-2021	3.24		
Goradhi GIS	1	Tr-01/160 MVA, 220/132 kV	28.60	20:00	11-08-2021	3.60	16:00	13-08-2021	5.69		
	2	Tr-02/160 MVA, 220/132 kV	Not Commissioned								
	3	Tr-01/50 MVA, 132/33 kV	10.30	20:00	05-08-2021	3.10	15:00	12-08-2021	5.13		
	4	Tr-02/50 MVA, 132/33 kV	18.40	19:00	11-08-2021	1.20	07:00	04-08-2021	11.09		
Mokama GIS	1	Tr-01/160 MVA, 220/132 kV	Not Commissioned								
	2	Tr-02/160 MVA, 220/132 kV	47.00	12:00	27-08-2021	0.00	07:00	04-08-2021	24.66		
	3	Tr-01/80 MVA, 132/33 kV	Not Commissioned								
	4	Tr-02/80 MVA, 132/33 kV	0	0	0	0	0	0	0.00	System connected but no power flow	
Dumraon GIS	1	Tr-01/160 MVA, 220/132 kV	122.82	21:00	13-08-2021	14.33	02:00	30-08-2021	63.78		
	2	Tr-01/80 MVA, 132/33 kV	18.88	09:00	19-08-2021	0.07	22:00	25-08-2021	3.69		

Note: Negative sign(-) denote import of power and positive sign (+) denote export of power. For example (-) 132.76 MW in Hajipur - Amnour ckt-1 denotes import of 132.76 MW from Hajipur S/S to Amnour S/S and 69.38 MW in Amnour -Siwan ckt-1 denotes 62.52 MW from Amnour to Siwan S/S.

(Handwritten Signature)

BIHAR GRID COMPANY LIMITED
Loading level of Transmission Assets

Voltage Grade	S. No	Name of TL	Element Loading Details (in MW)							Month:	Remark
										September 2021	
			Max	Time	Date	Min	Time	Date	Avg		
A. Power Flow in 220kV transmission line											
220 kV (26 nos. Ckts)	1	Amnour (BG) - Hajipur (BS) ckt-01	-181.95	22:00	29-09-2021	-36.16	09:00	14-09-2021	-89.41		
	2	Amnour (BG) - Hajipur (BS) ckt-02	-124.86	19:00	05-09-2021	-36.11	09:00	14-09-2021	-77.51		
	3	Patna (PG) - Khagaul (BS) ckt-02	-118.52	21:00	01-09-2021	-51.77	15:00	14-09-2021	-93.86		
	4	Patna (PG) - Khagaul (BS) ckt-03	-118.22	21:00	01-09-2021	-51.68	15:00	14-09-2021	-93.38		
	5	Khijirsarai (BG) - Biharsharif (BS) ckt-01	-144.13	06:00	03-09-2021	0.34	19:00	30-09-2021	-85.12		
	6	Khijirsarai (BG) - Biharsharif (BS) ckt-02	-144.08	06:00	03-09-2021	-1.38	20:00	30-09-2021	-84.96		
	7	Khijirsarai (BG) - Bodh Gaya (BS) ckt-01	0.67	08:00	30-09-2021	0.02	07:00	01-09-2021	0.03		
	8	Khijirsarai (BG) - Bodh Gaya (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow	
	9	Khijirsarai (BG) - Gaya (PG) ckt-01	-135.91	23:00	26-09-2021	-2.99	10:00	14-09-2021	-80.50		
	10	Khijirsarai (BG) - Gaya (PG) ckt-02	-136.06	23:00	26-09-2021	-3.21	10:00	14-09-2021	-80.58		
	11	Khijirsarai (BG) - Narhat (BG) ckt-01	133.39	13:00	12-09-2021	2.60	14:00	30-09-2021	83.93		
	12	Khijirsarai (BG) - Narhat (BG) ckt-02	133.16	13:00	12-09-2021	2.62	14:00	30-09-2021	83.73		
	13	Narhat (BG) - Sekhopur Sarai (BG) ckt-01	92.72	13:00	12-09-2021	0.90	14:00	30-09-2021	46.46		
	14	Narhat (BG) - Sekhopur Sarai (BG) ckt-02	92.63	13:00	12-09-2021	0.90	14:00	30-09-2021	46.44		
	15	Sekhopur Sarai (BG) - Haveli Kharagpur (BG) ckt-01	69.60	13:00	12-09-2021	-2.2	08:00	07-09-2021	22.45		
	16	Sekhopur Sarai (BG) - Haveli Kharagpur (BG) ckt-02	76.20	12:00	14-09-2021	-1.7	20:00	06-09-2021	30.24		
	17	Haveli Kharagpur (BG) - Goradih (BG) ckt-01	15.70	23:00	29-09-2021	2.30	09:00	30-09-2021	4.79		
	18	Haveli Kharagpur (BG) - Goradih (BG) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow	
	19	Mokama (BG) - Biharsharif (BS) ckt-1	-156.80	20:00	23-09-2021	0.00	12:00	02-09-2021	-44.55		
	20	Mokama (BG) - Biharsharif (BS) ckt-2	-157.40	20:00	23-09-2021	0.00	10:00	01-09-2021	-45.07		
	21	Mokama (BG) - BTPS ckt-1	142.50	20:00	23-09-2021	0.00	16:00	01-09-2021	32.58		
	22	Mokama (BG) - BTPS ckt-2	146.70	22:00	17-09-2021	0.00	16:00	01-09-2021	32.78		
	23	Dumraon New (BG) - Ara (PG) ckt-01	-25.68	07:00	03-09-2021	-0.01	18:00	09-03-2021	-3.88		
	24	Dumraon New (BG) - Ara (PG) ckt-02	-25.66	07:00	03-09-2021	-0.03	18:00	03-09-2021	-3.82		
	25	Dumraon New (BG) - Nadokhar (BS) ckt-01	-61.07	23:00	26-09-2021	-3.99	07:00	15-09-2021	-34.54		
	26	Dumraon New (BG) - Nadokhar (BS) ckt-02	-61.38	23:00	26-09-2021	-4.06	07:00	15-09-2021	-34.78		
B. Power Flow in 132 kV transmission line											
132 kV (29 nos. ckts)	1	Amnour (BG) - Siwan (BS) ckt-01	66.7	19:00	28-09-2021	0.01	06:00	11-09-2021	33.69		
	2	Amnour (BG) - Siwan (BS) ckt-02	58.51	19:00	05-09-2021	0.02	23:00	12-09-2021	33.58		
	3	Amnour (BG) - Chhapra (BS) ckt-01	67.56	18:00	28-09-2021	11.15	15:00	30-09-2021	34.57		
	4	Amnour (BG) - Chhapra (BS) ckt-02	60.58	22:00	20-09-2021	11.17	15:00	30-09-2021	35.78		
	5	Khijirsarai (BG) - Bodh Gaya (BS) ckt-03	28.65	19:00	12-09-2021	0.01	00:00	01-09-2021	9.52		
	6	Khijirsarai (BG) - Wajirganj (BS) ckt-01	48.94	19:00	05-09-2021	0.03	04:00	04-09-2021	31.25		
	7	Khijirsarai (BG) - Hutisganj (BS) ckt-01	46.70	12:00	08-09-2021	0.00	00:00	04-09-2021	5.42		
	8	Khijirsarai (BG) - Jehanabad (BS) ckt-01	79.83	19:00	05-09-2021	10.02	13:00	30-09-2021	53.31		
	9	Khijirsarai (BG) - Jehanabad (BS) ckt-02	79.75	19:00	05-09-2021	10.01	13:00	30-09-2021	53.26		
	10	Narhat (BG) - Nawadah (BS) ckt-01	61.50	13:00	03-09-2021	0.15	10:00	30-09-2021	30.91		
	11	Narhat (BG) - Nawadah (BS) ckt-02	50.41	11:00	03-09-2021	0.81	12:00	30-09-2021	23.64		
	12	Haveli Kharagpur (BG) - Sultanganj (BS) ckt-01	46.90	11:00	05-09-2021	5.30	09:00	09-09-2021	5.62		
	13	Haveli Kharagpur (BG) - Sultanganj (BS) ckt-02	46.90	11:00	05-09-2021	5.30	09:00	09-09-2021	5.63		
	14	Haveli Kharagpur (BG) - Lakhisarai (BS) ckt-01	-25.00	20:00	30-09-2021	-15.80	15:00	30-09-2021	-20.29		
	15	Haveli Kharagpur (BG) - Lakhisarai (BS) ckt-02	-25.10	20:00	30-09-2021	-15.90	15:00	30-09-2021	-20.29		
	16	Haveli Kharagpur (BG) - Jamalpur (BS) ckt-01	56.20	20:00	20-09-2021	1.90	02:00	11-09-2021	29.79		
	17	Haveli Kharagpur (BG) - Jamalpur (BS) ckt-02	50.00	21:00	27-09-2021	13.70	16:00	02-09-2021	27.19		
	18	Sekhopur Sarai (BG) - Sekhpura (BS) ckt-01	24.10	19:00	26-09-2021	4.2	20:00	24-09-2021	15.87		
	19	Sekhopur Sarai (BG) - Sekhpura (BS) ckt-02	24.10	19:00	26-09-2021	4.1	21:00	30-09-2021	15.91		
	20	Sekhopur Sarai (BG) - Biharsharif (BS) TL	0	0	0	0	0	0	0.00	System connected but no power flow	
	21	Goradih (BG) - Sultanganj (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow	
	22	Goradih (BG) - Sultanganj (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow	
	23	Goradih (BG) - Kahalgaon (BS) ckt-01	0	0	0	0	0	0	0.00	System connected but no power flow	
	24	Goradih (BG) - Kahalgaon (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow	
	25	Goradih (BG) - Sabour (BS) ckt-01	-19.90	19:00	11-09-2021	-1.40	14:00	22-09-2021	-11.14		
	26	Goradih (BG) - Sabour (BS) ckt-02	0	0	0	0	0	0	0.00	System connected but no power flow	
	27	Mokama (BG) - Hatidah (BS) ckt-01	21.90	07:00	10-09-2021	0.00	09:00	01-09-2021	12.02		
	28	Mokama (BG) - Hatidah (BS) ckt-02	22.10	07:00	10-09-2021	0.00	09:00	01-09-2021	12.13		
	29	Dumraon New (BG) - Dumraon Old (BS) ckt-2	101.83	06:00	25-09-2021	22.91	07:00	15-09-2021	64.28		

Substation Details	S.No.	MVA Capacity	Element Loading Details (in MW)							Remark
			Max	Time	Date	Min	Time	Date	Avg	
C. Power Flow in transformers										
Amnour GIS	1	Tr-01/160 MVA, 220/132 kV	123.85	19:00	05-09-2021	29.96	19:00	24-09-2021	83.80	
	2	Tr-02/160 MVA, 220/132 kV	125.53	19:00	05-09-2021	30.28	19:00	24-09-2021	84.91	
	3	Tr-01/50 MVA, 132/33 kV	27.44	22:00	23-09-2021	0.04	13:00	17-09-2021	15.65	
	4	Tr-02/50 MVA, 132/33 kV	27.57	22:00	23-09-2021	0.05	18:00	15-09-2021	15.52	
Khijirsarai GIS	1	Tr-01/160 MVA, 220/132 kV	118.57	20:00	10-09-2021	10.62	12:00	30-09-2021	80.30	
	2	Tr-02/160 MVA, 220/132 kV	122.06	20:00	10-09-2021	11.72	13:00	30-09-2021	82.91	
	3	Tr-01/50 MVA, 132/33 kV	Not Commissioned							
	4	Tr-02/50 MVA, 132/33 kV	6.53	19:00	25-09-2021	0.03	17:00	01-09-2021	4.19	
	5	Tr-03/50 MVA, 132/33 kV	10.26	17:00	27-09-2021	0.08	17:00	06-09-2021	6.11	
Narhat GIS	1	Tr-01/160 MVA, 220/132 kV	68.82	13:00	03-09-2021	0.02	10:00	30-09-2021	17.89	
	2	Tr-02/160 MVA, 220/132 kV	62.50	11:00	03-09-2021	0.05	06:00	02-09-2021	18.79	
	3	Tr-01/50 MVA, 132/33 kV	8.91	08:00	06-09-2021	0.02	23:00	18-09-2021	4.96	
	4	Tr-02/50 MVA, 132/33 kV	26.28	19:00	20-09-2021	0.03	19:00	12-09-2021	14.23	
Sekhopur Sarai GIS	1	Tr-01/160 MVA, 220/132 kV	30.70	19:00	26-09-2021	1.40	16:00	02-09-2021	19.56	
	2	Tr-02/160 MVA, 220/132 kV	28.00	19:00	26-09-2021	0.50	16:00	02-09-2021	20.20	
	3	Tr-01/50 MVA, 132/33 kV	4.00	16:00	14-09-2021	0.20	14:00	01-09-2021	0.61	
	4	Tr-02/50 MVA, 132/33 kV	16.90	09:00	18-09-2021	0.2	15:00	27-09-2021	7.33	
Haveli Kharagpur GIS	1	Tr-01/160 MVA, 220/132 kV	65.20	11:00	04-09-2021	1.30	10:00	27-09-2021	26.30	
	2	Tr-02/160 MVA, 220/132 kV	63.20	11:00	04-09-2021	1.80	10:00	27-09-2021	24.92	
	3	Tr-01/50 MVA, 132/33 kV	10.50	21:00	06-09-2021	1.4	18:00	30-09-2021	6.44	
	4	Tr-02/50 MVA, 132/33 kV	5.00	21:00	05-09-2021	0.5	16:00	02-09-2021	3.13	
Goradih GIS	1	Tr-01/160 MVA, 220/132 kV	-16.70	22:00	29-09-2021	-0.10	02:00	01-09-2021	-1.00	
	2	Tr-02/160 MVA, 220/132 kV	Not Commissioned							
	3	Tr-01/50 MVA, 132/33 kV	11.70	17:00	13-09-2021	0.00	00:00	01-09-2021	0.57	
	4	Tr-02/50 MVA, 132/33 kV	19.80	19:00	11-09-2021	0.00	17:00	13-09-2021	11.24	
Mokama GIS	1	Tr-01/160 MVA, 220/132 kV	Not Commissioned							
	2	Tr-02/160 MVA, 220/132 kV	44.20	07:00	10-09-2021	0.00	09:00	01-09-2021	23.12	
	3	Tr-01/80 MVA, 132/33 kV	Not Commissioned							
	4	Tr-02/80 MVA, 132/33 kV	0	0	0	0	0	0	0.00	System connected but no power flow
Dumraon GIS	1	Tr-01/160 MVA, 220/132 kV	113.71	03:00	25-09-2021	28.16	15:00	14-09-2021	77.58	
	2	Tr-01/80 MVA, 132/33 kV	18.46	21:00	01-09-2021	0.03	19:00	09-08-2021	4.29	
	3	Tr-02/80 MVA, 132/33 kV	18.80	19:00	12-09-2021	0.06	19:00	13-09-2021	8.31	
Note	Negative sign(-) denote import of power and positive sign (+) denote export of power. For example (-) 181.95 MW in Hajipur - Amnour ckt-1 denotes import of 181.95 MW from Hajipur S/S to Amnour S/S and 68.7 MW in Amnour-Siwan ckt-1 denotes 68.7 MW from Amnour to Siwan S/S.									

Handwritten signature



Bihar State Power Transmission Company Ltd., Patna
A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna
CIN – U40102BR2012SGC018889
[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]
Head Office, Vidyut Bhawan, Bailey Road, Patna – 800021,

Letter No. 309...../
File no: SLDC/S.O. cell/SLDC/BGCL/22/2017

Dated 10-08-2021...../

From,

Chief Engineer (System Operation)
Bihar State Power Transmission Co. Ltd.

To

AGM- O&M (Commercial)
Bihar Grid Company Limited
2nd floor, Alankar place, Boring Road
Patna, 800001

Sub: Certification of Energy accounting of BGCL power system for the month of April'21, May'21 & June'21.

Ref:- (i) BGCL tariff order FY 2021-22.

Sir,

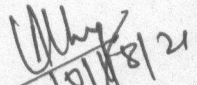
With reference to the subject mentioned above, monthly energy loss in the transmission system of BGCL is prepared as per the compliance to *Directive 6: Metering and Energy Audit, of "Transmission Tariff for FY 2021-22 for BGCL"* dated 12.03.2021 of BERC. All the interface points of BGCL and BSPTCL are considered in the calculation of transmission loss of BGCL.

Monthly energy accounting and hence loss in BGCL system has been prepared on the basis of data received from BGCL as well as in our system from AMR. In compliance of the above mentioned directive, energy loss % in the BGCL power system is calculated as follows:

Month	Loss (in %)
April-2021	1.344
May-2021	1.152
June-2021	1.311

Encl: as above

Yours faithfully


(A. K. Chaudhary)

Chief Engineer (System Operation)





Bihar State Power Transmission Company Ltd., Patna
A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna
CIN – U40102BR2012SGC018889
[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]
Head Office, Vidyut Bhawan, Bailey Road, Patna – 800021,

Letter No. 346...../.....
File no: SLDC/S.O. cell/SLDC/BGCL/22/2017

Dated...06/09/21.....

From,

Chief Engineer (System Operation)
Bihar State Power Transmission Co. Ltd.

To

AGM- O&M (Commercial)
Bihar Grid Company Limited
2nd floor, Alankar place, Boring Road
Patna, 800001

Sub: Certification of Energy accounting of BGCL power system for the month of July-2021.
Ref: Your office letter no. JV/PT/BG/O&M/Energy meter/July'21/660 dated 13.08.2021.

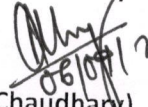
Sir,

With reference to the subject mention above, monthly energy loss in the transmission system of BGCL is prepared as per the compliance to *Directive 6: Metering and Energy Audit, of "Transmission Tariff for FY 2021-22 for BGCL"* dated 12.03.2021 of BERC. All the interface points of BGCL and BSPTCL are considered in the calculation of transmission loss of BGCL.

Monthly energy accounting and hence loss in BGCL system has been prepared on the basis of data received from BGCL as well as in our system from AMR. In compliance of the above mentioned directive, energy loss % in the BGCL power system for the month of July-2021 is calculated as 1.527 %.

Encl: as above

Yours faithfully


(A. K. Chaudhary)

Chief Engineer (System Operation)





Bihar State Power Transmission Company Ltd., Patna
A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna
CIN – U40102BR2012SGC018889

[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]
Head Office, Vidyut Bhawan, Bailey Road, Patna – 800021,

Letter No./
File no. SLD/CS O. cell/SLDC/BGCL/22/2017

Dated...../

From,

Chief Engineer (System Operation)
Bihar State Power Transmission Co. Ltd.

To

AGM- O&M (Commercial)
Bihar Grid Company Limited
2nd floor, Alankar place, Boring Road
Patna, 800001

Sub: Certification of Energy accounting of BGCL power system for the month of August -2021.
Ref: Your office letter no. JV/PT/BG/O&M/Energy meter/August'21/771 dated 13.09.2021.

Sir,

With reference to the subject mention above, monthly energy loss in the transmission system of BGCL is prepared as per the compliance to *Directive 6: Metering and Energy Audit, of "Transmission Tariff for FY 2021-22 for BGCL"* dated 12.03.2021 of BEREC. All the interface points of BGCL and BSPTCL are considered in the calculation of transmission loss of BGCL.

Monthly energy accounting and hence loss in BGCL system has been prepared on the basis of data received from BGCL as well as in our system from AMR. In compliance of the above mentioned directive, energy loss % in the BGCL power system for the month of August-2021 is calculated as 1.142 %.

Encl: as above

Yours faithfully

Sd/-

(A. K. Chaudhary)

Chief Engineer (System Operation)

Date.....

Memo No.

Copy forwarded to chief engineer, STU for kind information and necessary action.

(A. K. Chaudhary)

Chief Engineer (System Operation)



Bihar State Power Transmission Company Ltd., Patna
A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna
CIN – U40102BR2012SGC018889
[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]
Head Office, Vidyut Bhawan, Bailey Road, Patna – 800021,

Letter No./
File no. SLDC/S.O. cell/SLDC/BGCL/22/2017

Dated...../

From,

Chief Engineer (System Operation)
Bihar State Power Transmission Co. Ltd.

To

AGM- O&M (Commercial)
Bihar Grid Company Limited
2nd floor, Alankar place, Boring Road
Patna, 800001

Sub: Certification of Energy accounting of BGCL power system for the month of September-2021.
Ref: Your office letter no. JV/PT/BG/O&M/Energy meter/September'21/812 dated 05.10.2021.

Sir,

With reference to the subject mention above, monthly energy loss in the transmission system of BGCL is prepared as per the compliance to *Directive 6: Metering and Energy Audit*, of "Transmission Tariff for FY 2021-22 for BGCL" dated 12.03.2021 of BEREC. All the interface points of BGCL and BSPTCL are considered in the calculation of transmission loss of BGCL.

Monthly energy accounting and hence loss in BGCL system has been prepared on the basis of data received from BGCL as well as in our system from AMR. In compliance of the above mentioned directive, energy loss % in the BGCL power system for the month of September-2021 is calculated as 1.205 %.

Encl: as above

Yours faithfully

Sd/-

(A. K. Chaudhary)

Chief Engineer (System Operation)

Memo No.477

Date..12/11/2021

Copy forwarded to chief engineer, STU for kind information and necessary action.

(A. K. Chaudhary)

Chief Engineer (System Operation)

BIHAR GRID COMPANY LIMITED											
Name of the	Details With Sevice Connection Number taken to measure Auxillary Consumption		Consumption (Meter Reading)		Electricity charges paid in FY 2021-22						
	Customer ID	Meter Sl. No.	Meter wise (in MWH)	Total (in MWH)	From Date	To Date	Bill Amount (in Rs.)	Total Amount (in Rs.)			
Haveli Kharagpur	236702198791	LT-01(NBPD2842)	18.57	306.86	10-03-2021	10-04-2021	80,576	23,13,050			
			9.78		10-04-2021	09-05-2021	78,582				
			37.82		09-05-2021	14-06-2021	1,12,642				
			29.36		14-06-2021	15-07-2021	2,21,534				
			27.32		15-07-2021	11-08-2021	2,05,856				
			31.50		11-08-2021	14-09-2021	2,38,839				
			25.17		14-09-2021	12-10-2021	1,90,653				
			21.28		12-10-2021	08-11-2021	1,07,368				
			10.79		10-03-2021	10-04-2021	1,40,016				
	236702198873	LT-02(NBPD2831)	18.76		10-04-2021	09-05-2021	1,43,638				
			13.78		09-05-2021	14-06-2021	2,86,019				
			11.86		14-06-2021	15-07-2021	97,092				
			10.33		15-07-2021	11-08-2021	84,573				
			13.01		11-08-2021	14-09-2021	1,06,876				
			14.01		14-09-2021	12-10-2021	1,11,418				
			13.51		12-10-2021	08-11-2021	1,07,368				
			23.00		09-03-2021	09-04-2021	2,06,371				
			23.00		09-04-2021	15-05-2021	10,887				
Narhat	222102440273	LT-01(XB426793)	75.00	253.00	15-05-2021	07-06-2021	5,47,212	23,10,972			
			28.00		07-06-2021	12-07-2021	7,79,489				
			28.00		12-07-2021	10-08-2021	2,00,848				
			31.00		10-08-2021	11-09-2021	2,35,339				
			21.00		11-09-2021	12-10-2021	1,51,540				
			24.00		12-10-2021	06-11-2021	1,79,286				
			16.00		12-03-2021	07-04-2021	78,147				
			24.00		07-04-2021	10-05-2021	1,20,152				
Khijir Sarai	22720049687	LT-01(XB426808)	22.00	174.00	10-05-2021	09-06-2021	1,09,685	8,67,209			
			26.00		09-06-2021	15-07-2021	1,29,933				
			22.00		15-07-2021	14-08-2021	1,09,592				
			26.00		14-08-2021	18-09-2021	1,29,917				
			11.00		18-09-2021	09-10-2021	54,292				
			27.00		09-10-2021	16-11-2021	1,35,491				
			27.90		06-03-2021	13-04-2021	1,93,477				
			22.40		13-04-2021	17-05-2021	1,56,211				
Annour	102510099642	LT-01(XB426792)	24.86	204.52	17-05-2021	19-06-2021	1,71,368	14,60,171			
			25.24		19-06-2021	20-07-2021	1,85,685				
			28.60		20-07-2021	20-08-2021	2,09,769				
			30.72		20-08-2021	21-09-2021	2,25,942				
			26.91		21-09-2021	21-10-2021	1,85,264				
			17.89		21-10-2021	16-11-2021	1,32,455				
			28.20		24-03-2021	03-05-2021	2,11,274				
			23.30		03-05-2021	03-06-2021	1,73,140				
Shekhopur Sarai	23820016859	LT-02(XC579640)	49.60	193.99	03-06-2021	03-08-2021	3,71,743	14,48,026			
			25.60		03-08-2021	06-09-2021	1,88,898				
			41.95		06-09-2021	29-10-2021	3,12,924				
			25.33		29-10-2021	30-11-2021	1,90,047				
			2.82		14-03-2021	21-04-2021	33,376				
			2.50		21-04-2021	20-05-2021	29,534				
			4.31		20-05-2021	19-06-2021	43,060				
			3.84		19-06-2021	15-07-2021	35,283				
Goradih	234203806544	LT-01(00059011)	4.34	172.25	15-07-2021	11-08-2021	39,243	14,00,246			
			3.15		11-08-2021	12-09-2021	32,162				
			4.03		12-09-2021	11-10-2021	37,673				
			3.57		11-10-2021	12-11-2021	35,228				
			14.46		14-03-2021	21-04-2021	1,18,900				
			10.00		21-04-2021	20-05-2021	82,794				
			22.89		20-05-2021	19-06-2021	1,76,503				
	234203806661	LT-02(NBPD4751)	15.63		19-06-2021	15-07-2021	1,20,860				
			18.68		15-07-2021	11-08-2021	1,41,797				
			25.11		11-08-2021	12-09-2021	1,89,930				
			18.76		12-09-2021	11-10-2021	1,43,921				
			18.16		11-10-2021	12-11-2021	1,39,982				
			34.74		08-04-2021	06-07-2021	2,61,152				
			16.79		06-07-2021	18-08-2021	1,38,592				
Mokama	213405922815	LT-02(2175375)	11.71	89.45	18-08-2021	17-09-2021	95,367	7,09,283			
			10.93		17-09-2021	15-10-2021	89,321				
			15.28		15-10-2021	23-11-2021	1,24,851				
			Total Amount						1,05,08,957	1,05,08,957	

BIHAR GRID COMPANY LIMITED



INDEX OF PROGRESS REPORT

Date : 31/12/2021

Sl. no	Activity	PROJECT
1	Brief of BGCL works	STRENGTHENING OF TRANSMISSION SYSTEM IN THE STATE OF BIHAR UNDER PHASE-IV, PART-I & II (12th Plan)
2	Transmission lines -Part-I	
3	GIS Sub Station- Part-I	
4	Bay extensions -Part-I	
5	Status of Transmission Line part-II	
6	Substation - Part-II	
7	Bay extensions -Part II	
8	System Availability Report of BGCL Assets	
9	Supplementary Works	

BRIEF STATUS of work undertaken by BIHAR GRID COMPANY LTD. for strengthening of transmission system in the state of Bihar under Phase-IV, Part-I& II (12th Plan)

Bihar Grid Company Ltd. (BGCL), a 50:50 JV of BSP(H)CL and POWERGRID, has undertaken the work of strengthening of transmission system in the state of Bihar under **Phase-IV Part-I & Part-II (12th plan)**

Clearance/ License/ Approval	Authority	Reason	Status
Transmission Licence	BERC	To engage in the business of transmission of electricity	Granted
Sec-68	GoB, Energy department	To install an overhead Transmission Line above ground.	Granted
Sec-164	GoB, Energy department	For setting up transmission line along the route	Granted
Business Plan	BERC	To take up the project work	Granted for PH IV, Part-I&II and Supplementary

Phase-IV, Part-I

- > Project Cost ₹ 2024.11 Cr (RCE-III) -- DPR Cost : Rs. 1699.36 Cr.
- > Funding tie-up : ₹ 1619.28 cr. (80% of Project Cost) Through domestic (Funding) **loan from M/s REC** and ₹ 404.82 cr. (20% of project cost) **Equity from the promoters [BSP(H)CL & POWERGRID]**
- > Debt Equity Ratio 80:20

Financial Status

(Fig in ₹ Crs.)

Sl. No	Project	Cost Estimate RCE-III	Receipt towards Equity from Promoters	Receipt loan M/S REC	Total Receipt	Expenditure as on date
1	Phase-IV, Part-I	2024.11	380.86	1465.84	1846.70	1846.70

Phase-IV, Part-I

Scope Awarded

New GIS	:	07 Nos. [2240MVA (220/132KV)+750MVA(132/33KV)]
Bay extension	:	14 Nos.
Transmission lines	:	23 Nos. (1501 ckms)

Scope of Work :

- 1) 07 (Seven) nos. 220/132KV Gas Insulated Substations (GIS) at Chapra, Gaya, Nawada, Hatidah, Sheikhpura, Jamalpur and Sabour.

- 2) 14 (Fourteen) nos. bay extension in existing substations of BSPTCL, namely Siwan, Chapra, Hajipur, Khagaul, Patna (PG), Biharsharif, Sheikhpura, Nawada, Hatidah, Jamalpur, Hulasganj, Gaya (PG), Sabour and Bihta.
- 3) 22 (Twenty two) nos. Transmission Lines of 220KV and 132KV level. (220KV- 879 kms and 132KV- 622 kms) [1 no line deleted from the scope by BSPTCL due to change in location of Gaya (new) S/s from Manpur to Khizirsarai] after load flow study with CTU POWERGRID and concured from CEA vide letter no. 69/1/2015-PSPA-II/57 dated 01.02.2016.

Detailed progress as Annex below:

Annex-A : Tr. Lines
Annex-B : GIS Sub stations
Annex-C : Bay extension

Commercial Status- Realization efficiency is 59.84% out of Billed Amount ₹ 1488Cr.

Phase-IV, Part-II

- > Project Cost ₹1688.36 Cr
- > Funding tie-up ₹1350.68Cr (80% project cost) through domestic funding loan from M/s PFC and ₹337.67 Cr (20% of Project cost) equity from promoters (BSPHCL & POWERGRID)
- > Debt:Equity Ratio 80:20

Financial Status

(Fig in ₹ Crs.)

Sl. No	Project	Cost Estimate DPR	Receipt towards Equity from Promoters	Receipt loan M/S PFC	Total Receipt	Expenditure as on date
1	Phase-IV, Part-II	1688.36	241.98	893.68	1135.66	1079.99

Scope Awarded

- > New GIS : 04 Nos. [2000MVA (400/220KV) + 1120MVA (220/132) + 200MVA (220/33kV) + 640MVA (132/33kV)]
- > Bay extension : 07 Nos.
- > Transmission lines : 17 Nos. (784 ckms)

Scope of Work

- 1) 04 (Four) nos. Gas Insulated Substations (GIS) of various voltage level. 2 nos . Of 400/220/132/33kV GIS at Jakkanpur, Naubatpur , 1 no. 220/132/33kV GIS at Dumroan & 1 no. 220/33kV GIS at Bhusaula.
- 2) 07 (seven) nos. of bay extensions in existing substations of BSPTCL at Bihta, Masauhri, Palliganj, Katihar, Dumraon, Buxar, Jehanabad.
- 17 (Seventeen) nos. Transmission Lines of 400kV, 220KV and 132KV level. (400kV- 38 ckms. 220KV- 258 ckms and 132KV- 486ckms). One no. transmission line is spill over works of Phase-IV Part-I works.

Detailed progress as Annex below:

Annex-D : Transmission Lines
Annex-E : GIS Sub stations
Annex-F : Bay extension

SUMMARY of TOWER PACKAGES - Part-I

Date : 31/12/2021

Sch Compl : 19 months for NOA

CD Pkg	Sl. no	Name of Transmission Line [Revised Name]	CD type*	Route length (kms)		Nos. of fdn (Rev)	Fdn Cumm Pgr.	Erec. Cumm Pgr.	Strg. Cumm Pgr	Bal Strg kms.	Remarks/Schedule Completion
				As per LOA	Act/ Rev						
A. Tower Package TW-01 M/s Tata Projects (NOA date :Nov'14)											
CD-01	1	220kV D/C Hajipur- Amnaur(New)	Z	70	47.7	147	147	147	47.7	0.0	CHARGED on 17/04/17.
CD-01	2	132kV D/C Amnaur (New)- Siwan	P	90	65.7	211	211	211	65.7	0.0	CHARGED on 11/08/17
CD-01	3	132kV D/C Amnaur (new)-Chapra(old)	Z	30	25.6	84	84	84	25.6	0.0	CHARGED on 26/12/17
CD-02	4	220kV D/C Patna-Khagaul	H	18	25.5	87	87	87	25.5	0.0	CHARGED on 07/08/19
CD-01	5	LILO of one ckt of 132kV D/C Khagaul-Digha at Bihta	P	25	29.3	97	97	97	29.3	0.0	Work completed. Shutdown awaited from BSPTCL for line charging. Completion likely by Jan'22
				233	193.8	626	626	626	193.8	0.0	
B. Tower Package TW-02 M/s L&T (NOA date : Oct'14)											
CD-01	1	LILO OF 132kV S/C Bodhgaya-Wazirganj Line at Khizersarai	P	30	30.2	110	110	110	30.2	0.0	CHARGED on 31/08/17
CD-01	2	132kV S/C (on D/C Tower) Khizersarai New -Hulasganj	P	50	10.3	40	40	40	10.3	0.0	CHARGED on 25/08/17
CD-03	3	220kV D/C Gaya(PG) - Khizersarai	H	45	56.2	197	197	197	56.2	0.0	CHARGED on 26/05/18
CD-03	4	220kV D/C Narhat -Khizersarai	H	65	55.0	181	181	181	55.0	0.0	CHARGED on 14/09/17
CD-01	5	LILO OF 220kV D/C Biharsharif-Bodhgaya Line at Khizersarai	Z	30	15.9	54	54	54	15.9	0.0	CHARGED on 06/08/17
				220	167.5	582	582	582	167.5	0.0	
C. Tower Package TW-03 M/s L&T (NOA date : Oct '14)											
CD-01	1	132kV D/C SheikhpurSarai -Sheikhpura	Z	30	24.5	84	84	84	24.5	0.0	CHARGED on 22/12/17
CD-01	2	132kV S/C (on D/C Towers) SheikhpurSarai - Biharsharif	P	50	42.6	179	179	179	42.6	0.0	CHARGED on 25/02/19
CD-01	3	132kV D/C Narhat -Nawada	Z	25	17.5	55	55	55	17.5	0.0	CHARGED on 16/09/17
CD-04	4	220kV D/C SheikhpurSarai - Haveli Khagarpur	H	135	125.0	411	411	411	125.0	0.0	CHARGED on 27/04/18
CD-02	5	220kV D/C Narhat -SheikhpurSarai	H	75	50.8	170	170	170	50.8	0.0	CHARGED on 21/12/17
				315	260.4	899	899	899	260.4	0.0	
D. Tower Package TW-04 M/s RS Infra (NOA date : Jan'15)											
CD-01	1	132kV D/C Goradiah to Sabour TL (incl XLPE cable)	Z	10	25.0	43	43	43	25.0	0.0	CHARGED on 11/06/19
	2	LILO of 132kV D/C Kahalgaon- Sultanganj at Goradiah	3ac P	10	18.1	72	72	72	18.1	0.0	CHARGED on 18/04/17
CD-05	3	220kV Goradiah to Haveli Khagarpur	H	85	60.3	198	198	198	60.3	0.0	CHARGED on 24/01/19
CD-01	4	132kV D/C Haveli Khagarpur - Jamalpur (incl XLPE cable)	Z	7.5	34.3	119	119	119	34.3	0.0	CHARGED on 16/01/19
	5	LILO of 132kV D/C Sultanganj- Lakhisarai at Haveli Khagarpur	3ac P	5	37.0	149	149	149	37.0	0.0	CHARGED on 01/05/18
CD-01	6	LILO of 220kV D/C Begusarai- Biharsarief at Mokama	Z	30	6.5	24	24	24	6.5	0.0	CHARGED on 18/09/20
CD-01	7	132kV D/C Hathidah to Mokama	Z	8	6.9	28	28	28	6.9	0.0	CHARGED on 22/09/20
				155.5	188.0	633	633	633	188.0	0.0	
				923.5	809.7	2740	2740	2740	809.7	0.0	
							OVERALL Completion	100.0%	100.0%	100.00%	

* Z - ACSR ZEBRA, P- ACSR PANTHER , H-HTLS ZEBRA , 3ac P- AAAC PANTHER

Summary of GIS S/s - PART-I

Sl. No.	Name of GIS Substation (220/132/33kV)	Package	NOA Date	Agency	Land availability date	Scheduled completion (NOA)	Sch comp / Rev L2 based on land Availability	Anticipated/ Actual compl.	Work status/Constraints
NEW GIS SUB STATION (220/132/33KV)									
1	Amnaur (2X160+2X50MVA)	SS-04	30.09.2014	M/s SIEMENS	16.03.15	Apr'16	Dec'16	COMMISSIONED	Commissioned on 18.04.2017.
2	Khisersarai (2X160+3X50MVA)	SS-03	30.09.2014	M/s SIEMENS	31.03.15	Apr'16	Oct'16	COMMISSIONED	Commissioned on 12.08.2017.
3	Narhat (2X160+2X50MVA)	SS-04	30.09.2014	M/s SIEMENS	14.05.15	Apr'16	Dec'16	COMMISSIONED	Commissioned on 14.09.2017.
4	Sheikhopursarai (2X160+2X50MVA)	SS-02	04.11.2014	M/s ABB	11.03.15	May'16	Sept'16	COMMISSIONED	Commissioned on 21.12.2017.
5	Haveli Kharagpur (2X160+2X50MVA)	SS-01	04.11.2014	M/s ABB	05.05.15	May'16	Nov'16	COMMISSIONED	Commissioned on 27.04.2018.
6	Goradih (2X160+2X50MVA)	SS-01	04.11.2014	M/s ABB	18-6-2015	May'16	Jan'17	COMMISSIONED	Commissioned on 24.01.2019
7	Mokama (2X160+2X50MVA)	SS-02	04.11.2014	M/s ABB	Nov'17	May'16	May'19	COMMISSIONED	Commissioned on 22.09.2020

Summary of Bay extension PART-I

BAY EXTENSION WORK										
Sl. No.	Name of bay extension	Type f bay GIS/AIS	Package	NOA Date	Agency	Bay detail		Schedule Completion (NOA)	Anticipated/ Actual Completion	Work status/constraint
						220KV level	132KV level			
1	Sabour	AIS	SS-01	04.11.2014	M/s ABB	NA	2	May'16	Comp	Charged.
2	Jamalpur	AIS				NA	2	May'16	Comp	Charged.
3	Biharsharif	AIS	SS-02	04.11.2014		NA	1	May'16	Comp	Charged.
4	Sheikpura	AIS				NA	2	May'16	Comp	Charged.
5	Hatidah	AIS				NA	2	May'16	Comp	Charged.
6	Gaya(PG)	AIS	SS-03	30.09.2014	M/s SIEMENS	2	NA	Apr'16	Comp	Charged.
7	Hulasganj	AIS				NA	1	Apr'16	Comp	Charged.
8	Patna(PG)	AIS				2	NA	Apr'16	Comp	Charged.
9	Khagaul	GIS				2	NA	Apr'16	Comp	Charged.
10	Siwan	AIS	SS-04	30.09.2014	M/s SIEMENS	NA	2	Apr'16	Comp	Charged.
11	Chapra	AIS				NA	2	Apr'16	Comp	Charged.
12	Hazipur	GIS				2	NA	Apr'16	Comp	Charged.
13	Nawada	AIS				NA	2	Apr'16	Comp	Charged.
14	Bihta	GIS	SS-10	26.04.2018	M/s Shandong Taikai+Godrej		2		Comp	CHARGED on 30.01.2021(on no-load.) Load flow to commence on charging of LILO of one ckt of132kV D/C Khagaul-Digha at Bihta T/L. Ant. by Jan'22

SUMMARY of TOWER PACKAGES - Part-II

Sch Compl : 23 Months from date of NOA

Sl.No	Name of transmission Line	**CD Type	Route length - (Kms)	No. of fdn (Nos)	Construction Activity					Status	Remarks
					Fdn Cumm Progress (nos)	Bal Fdn Nos.	Erec. Cumm Progress (nos)	Bal Erec. Nos.	String Cumm Progress (Kms)		
Tower Package-TW02 (M/s BAJAJ) [NOA dt- 17.04.2018]											
1	132kV D/C Gaya(new)-Jehanabad transmission line	Z	30.59	95	95	0	95	0	30.59	0.00	Line Charged on 22.01.2020 .
2	LILO of 220kV D/C Ara(PG)-Pusauli(PG) line at Dumraon (New)	Z	40.53	136	136	0	136	0	40.53	0.00	Line Charged on 11.12.2020 .
3	132kV D/C Dumraon (new) - Dumroan (BSPTCL) transmission line	Z	25.90	89	89	0	89	0	25.90	0.00	Line Charged on 30.12.2020 .
4	220kV D/C Naubatpur(new)-Bihta(BSPTCL) transmission line	Z	20.24	74	68	6	68	6	16.32	3.92	Expected completion by Mar'22 (Severe ROW- Charging of line will take 3 months from the date ROW is resolved)
5	220kV D/C Naubatpur(new)-Bhusaula(new) transmission line (partly on monopoles)	Z	19.54	63	63	0	56	7	14.19	5.35	Expected completion by Mar'22
6	132kV D/C Naubatpur-Masauhri transmission line (partly on monopoles)	Z	13.35	48	48	0	48	0	13.35	0.00	Line Ready. Commissioning by Mar'22 (matching with Naubatpur S/s)
7	132kV D/C Dumraon(new)-Buxar (BSPTCL) transmission line	P	37.20	128	128	0	128	0	37.20	0.00	Expected completion by Feb'22 (Matching with readiness of Buxar bay)
8	LILO of both ckt of 132kV Ara-Jagdishpur D/C T/L at Dumraon (new)	P	43.85	157	157	0	154	3	40.55	3.30	Expected completion by Feb'22
9	132kV D/C Naubatpur-Palliganj transmission line	Z	27.52	81	81	0	80	1	11.00	16.52	Front made available recently by BSPTCL. Engg activities commenced. Expected completion by June'22
			258.72	871	865	6	854	17	229.63	29.09	
			% compl TW02		99%		98%		89%		

SUMMARY of TOWER PACKAGES - Part-II

Sch Compl : 23 Months from date of NOA

Sl.No	Name of transmission Line	**CD Type	Route length - (Kms)	No. of fdn (Nos)	Construction Activity						Status	Remarks
					Fdn Cumm Progress (nos)	Bal Fdn Nos.	Erec. Cumm Progress (nos)	Bal Erec. Nos.	String Cumm Progress (Kms)	Bal String. Kms.		

Date : 31/12/2021

Tower Package-TW01 (M/s KEC) [NOA dt - 26.04.2018]

1	LILO of 400kV D/C (Quad) Nabinagar-II - Patna (PG) line at Jakkanpur (new)	QM	16.25	45	45	0	43	2	14.73	1.52	Expected completion by Mar'22. (matching with Jakkanpur S/s)	<p>- WORK PROGRESS AFFECTED DUE TO COVID SECOND WAVE OF DEADLY MUTATION & IMPOSITION OF LOCKDOWN.</p> <p>- MAJOR GANGS DEMOBILISED DUE TO SEVERE ROW in various T/Ls associated with Jakkanpur/Naubatpur</p> <p>- Work obstructed due to heavy rain/ monsoon</p> <p>- Water logging at various location/area and paddy field , Locations unapproachable</p> <p>-Anticipated charging is kept matching with S/S</p>
2	LILO of 400kV D/C (Quad) ckt. 3&4 of Patna-Balia line at Naubatpur (new)	QM	2.84	8	8	0	7	1	0.00	2.84	Expected completion by Mar'22 (matching with Naubatpur S/s)	
3	LILO of 200kV D/C Sipara(BSPTCL)-Bihta(BSPTCL) line at Jakkanpur (new)	Z	23.35	88	47	41	40	48	6.02	17.33	Expected completion by Mar'22 (Severe ROW)	
4	LILO of 220kV S/C Khagaul(BSPTCL)-Sipara(BSPTCL) line at Jakkanpur(new)	Z	24.81	103	94	9	91	12	17.82	6.99	Expected completion by Mar'22. (Severe ROW)	
5	LILO of 220kV D/C Ara(PG)-Khagaul(BSPTCL) line at Naubatpur (new)	Z	13.39	52	43	9	41	11	5.22	8.17	Expected completion by Mar'22 (Severe ROW)	
6	LILO of 132kV S/C Jakkanpur/Mithapur-Fathua line at Jakkanpur (new) (with HTLS conductor)	HTLS P	28.35	105	99	6	97	8	20.40	7.95	Expected completion by Mar'22. (Severe ROW)	
7	LILO of 132kV D/C Jakkanpur-Sipara line at Jakkanpur (new) (with HTLS conductor)	HTLS P	30.04	116	44	72	26	90	0.00	30.04	Expected completion by Mar'22 (Severe ROW)	
8	LILO of one ckt of 132kV D/C Purnea-Naugachia/Khagaria line at Kathihar (BSPTCL)	P	20.67	69	68	1	67	2	18.72	1.95	1 no. loc is under severe ROW. (DD+25 twin tower) Matter pending at Kathihar court. Status Quo order issued for said loc. Hon'ble High Court passed order in favour of BGCL and rejected appellant petition. Next hearing in Kathihar civil court . The said location 1/0 work has pile fdn & cable laying further. Exp comp by Mar'22	
			160.18	586	448	138	412	174	82.91			
			% compl TW01		76%		70%		52%			
TOTAL PROGRESS			418.89	1457	1313	144	1266	191	312.54			
					90%		87%		75%			

**QM- Quad Moose, Z- ACSR Zebra, HTLS P- HTLS Panther, P-Panther

Summary of Substations Package under Ph-IV Part-II

Date : 31/12/2021

Sl no	Name of GIS S/S	Pkg	NOA dt	Agency	Land availability date	Sch Comp	Ant. Compl	Status
1	220/132/33kV Dumraon GIS new substation (2X160MVA+2X80MVA)	SS10	26-4-2018	M/s SHANDONG TAIKAI / M/s GODREJ	16.05.18	Feb'20	Commissioned	Commissioned on 11.12.2020
2	400/220/132/33kV Naubatpur GIS new substation (2x500MVA+2X160MVA+2X80MVA)	SS09	26-4-2018	M/s SHANDONG TAIKAI / M/s GODREJ	07.08.18	Feb'20	Mar'22	S/Y work : 85% compl Transformer - 90% compl FFPH - 85% compl GIS - 85% compl Control Room - 90% compl Water Tank -90% compl 33kV SGR - 85% compl - Naubatpur will be commissioned after charging of 220kV D/c Naubatpur-Bihta Line (currently under severe ROW) as all Data Communication will be through this line.
3	220/33kV Bhusaula GIS new substation (2X100MVA)	SS09	26-4-2018	M/s SHANDONG TAIKAI / M/s GODREJ	12.05.18	Feb'20	Mar'22	S/Y works - 80% comp FFPH building – 75% compl Transformer – 75% compl. Control Room - 75% compl. GIS - 70% compl 33kV SGR - 80% compl Water Tank - 80% compl - Bhusaula will be commissioned after charging of 220kV D/C Naubatpur-Bhusaula line (i/c line)
4	400/220/132/33kV Jakkanpur GIS new substation (2X500MVA+3X160MVA+4X80MVA)	SS10	26-4-2018	M/s SHANDONG TAIKAI / M/s GODREJ	12.05.18	Feb'20	Mar'22	S/Y works - 75% compl. FFPH - 75% comp. Transformer - 75% compl. Control Room - 75% compl. GIS - 70% compl. 33KV SGR - 70% compl. Water Tank - 85% compl - Jakkanpur associated tranmission lines are under Severe ROW.

Summary of Bay extensions under Ph-IV Part-II

Date : 31/12/2021

Sl no	Name of GIS/AIS bay extension	Pkg	NOA dt	Agency	Sch Compl	Ant. Compl	Status
1	132/33kV Jehanbad AIS Extn S/s	SS10	26-4-2018	M/s SHANDONG TAIKAI / M/s GODREJ	Feb'20	CHARGED	Charged on 25.02.2020
2	132/33kV Dumraon AIS Extn S/s		26-4-2018		Feb'20	CHARGED	Charged on 30.12.2020. <i>2nd bay to be connected by 132kV XLPE Cable.</i> Gantry foundation completed. Erection and cabling work balance. Ant by Jan'22
3	132/33kV Buxar AIS Extn S/s		26-4-2018		Feb'20	Feb'22	Tower & Equipment foundation completed. Erection completed. Main bus stringing u/p. Cable laying under progress. GIBD work commenced.
5	220/132/33KV Bihta (BSPTCL) GIS Extn.S/s	SS09	26-4-2018	M/s SHANDONG TAIKAI / M/s GODREJ	Feb'20	Mar'22	Tower & equipment foundations/ erection completed. GIS erection completed. Bus duct erection , cable trench work under progress.
6	132/33kV Masuhari AIS Extn S/s		26-4-2018		Feb'20	Mar'22	Tower/Equipment erection completed. Bus Duct foundation, Cable trench work under progress. CRB both floor roof casting done. GIBD erection work commenced.
4	132/33kV Katihar AIS Extn S/s		26-4-2018		Feb'20	Mar'22	All Tower/Equipment foundation and erection completed. Equipment testing completed. Relay & PLCC work pending. (Associated line- 1 no. loc held up due to Status Quo order by court)
7	132/33kV Palliganj AIS Extn S/s		26-4-2018		Feb'20	Jun'22	Front made available recently by BSPTCL. - Engg. Work under progress.

Supplementary Works of BGCL

Project Cost	:	₹ 111.14 Cr
Funding tie up	:	₹ 88.91 cr. (80% of Project Cost) Through domestic(Funding) loan from M/s REC and ₹ 22.282 cr. (20% of project cost) Equity from the promoters [BSP(H)CL & POWERGRID]
Debt : Equity	:	80:20

Scope of Works:

- 1) Installation of 2nos. 125MVAR, 420kV Bus Reactors at 400kV Jakkanpur GIS
 - 2) Installation of 2nos. 125MVAR, 420kV Bus Reactors at 400kV Naubatpur GIS
 - 3) Installation of 1no. 160MVA, 220/132kV ICT at 220/132/33kV Amnour GIS of BGCL.(3rd ICT)
- >> This scheme as approved by Central Electricity Authority (CEA), Ministry of Power, Govt of India and requested by BSPTCL.

FINANCIAL STATUS

Sl. No	Project	Sanctioned DPR/ Project Cost	Receipt towards Equity from Promoters	Receipt loan M/S REC	Total Receipt	Expenditure as on date
1	Supplementary Work	111.14	22.23	4.48	26.71	20.25

Work Status

- > Section 68 granted by Govt. Of Bihar for installation of supplementary works on 09.10.2018
- > Business Plan approved by Hon'ble BERC vide tariff order no 39 of 2018 and 52 of 2018,dated 15.02.2019 as Supplemental works of BGCL.
- > NOA has been placed to JV of M/s Godrej and M/s Taikai India on 30.01.2020 under Substation package SS-28
- > Contract agreement has been signed on 02/09/2020.
- > Work is under progress for installation of Bus reactor at Jakkanpur & Naubatpur and of 3rd ICT at Amnour.

BIHAR GRID COMPANY LIMITED.

SUMMARY OF AVAILABILITY OF TRANSMISSION SYSTEM

Availability for the Period : From 01.04.2017 to 30.11.2021

Sr.No.		Month	% Availability	Remarks
1	FY 17-18 99.11%	April ' 2017	96.98	Transmission System availability certificate issued by BSPTCL.
2		May ' 2017	99.68	
3		June ' 2017	97.28	
4		July ' 2017	99.34	
5		August ' 2017	99.88	
6		Sept ' 2017	99.99	
7		Oct ' 2017	99.76	
8		November ' 2017	99.18	
9		December ' 2017	99.43	
10		January ' 2018	98.30	
11		February ' 2018	99.51	
12		March ' 2018	99.96	
13	FY 18-19 99.07%	April ' 2018	98.65	
14		May ' 2018	97.99	
15		June ' 2018	99.03	
16		July ' 2018	99.37	
17		Aug ' 2018	99.90	
18		Sept ' 2018	99.69	
19		Oct ' 2018	99.99	
20		Nov ' 2018	97.16	
21		Dec' 2018	98.18	
22		Jan' 2019	99.56	
23		Feb'2019	99.91	
24		Mar'2019	99.42	
25	FY 19-20 99.67%	Apr'2019	99.96	
26		May'2019	99.78	
27		June'2019	98.80	
28		July'2019	99.57	
29		August'2019	99.85	
30		Sept' 2019	99.91	
31		Oct' 2019	99.82	
32		Nov' 2019	99.83	
33		Dec'2019	99.50	
34		Jan'2020	99.81	
35		Feb'2020	99.31	
36		Mar'2020	99.91	
37	FY 20-21 99.76%	Apr'2020	99.99	
38		May'2020	99.92	
39		June'2020	99.99	
40		July'2020	99.92	
41		August'2020	99.82	
42		Sep'2020	99.90	
43		Oct'2020	99.97	
44		Nov'2020	99.99	
45		Dec'2020	99.89	
46		Jan'2021	98.01	
47		Feb'2021	99.74	
48		Mar'2021	99.98	
49	FY 21-22 99.86%	Apr'21	99.98	
50		May'21	99.96	
51		June'21	99.98	
52		July'21	99.57	
53		Aug'21	99.82	
54		Sept'21	99.87	
55		Oct'21	99.63	
56		Nov'21	99.97	



Bihar State Power Transmission Company Ltd., Patna
A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna
CIN - U40102BR2012SGC018889

[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]
Head Office, Vidyt Bhawan, Bailey Road, Patna -800021,
Telephone No. 0612-2504655, Email address - sldc.bseb@gmail.com
Fax No. 0612-2504655 Website - www.bsptcl.in

Date... 26/05/20

Letter No. 153
S.O.cell/SLDC/TAFM BGCL/2-4/2017 (Part-II)

From,

A.K. Chaudhary
Chief Engineer (System Operation)
BSPTCL, Patna

To,

AGM-O & M (Commercial)
Bihar Grid Company Limited
2nd floor, Alankar place, Boring Road
Patna, 800001

Subject: - BGCL Transmission system availability Certification of month April-2020

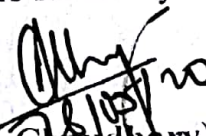
Ref: - BGCL/O&M/Patna/Availability/April'20/466 dated 11.05.2020

Sir,

With reference to above, Transmission system availability certification of BGCL System for 220 KV and 132 KV computed as per CERC regulation 2014 for the month of April-2020 as detailed below :-

Month	% Availability of BGCL Transmission System
April-2020	99.99

Yours faithfully


(A.K. Chaudhary)
Chief Engineer (System Operation)
BSPTCL, Patna



Bihar State Power Transmission Company Ltd., Patna
A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna
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[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]
Head Office, Vidyt Bhawan, Bailey Road, Patna -800021,
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Fax No. 0612-2504655 Website - www.bsptel.in

Letter No.

S.O.ceII/SLDC/TA FM BGCL/24/2017 (Part-II)

Date.....

From,

A.K. Chaudhary
Chief Engineer (System Operation)
BSPTCL, Patna

To,

AGM-O & M (Commercial)
Bihar Grid Company Limited
2nd floor, Alankar place, Boring Road
Patna, 800001

Subject: - BGCL Transmission system availability Certification of month May-2020

Ref: - JV/PT/BG/O&M/Availability/May'20/583, Dated:08.06.2020

Sir,

With reference to above, Transmission system availability certification of BGCL System for 220 KV and 132 KV computed as per CERC regulation 2014 for the month of May-2020 as detailed below :-

Month	% Availability of BGCL Transmission System
May-2020	99.92

Yours faithfully

(A.K. Chaudhary)
Chief Engineer (System Operation)
BSPTCL, Patna

Memo No.....184

Dated.....22/06/2020

Copy forwarded to:-

- i) Chief Engineer (Commercial) SBPDCL, Patna for kind information.
- ii) Chief Engineer (Commercial) NBPDC, Patna for kind information.
- iii) Chief Engineer (PMC) BSPHCL, Patna for kind information.


(A.K. Chaudhary)
Chief Engineer (System Operation)

P.Y



Bihar State Power Transmission Company Ltd., Patna
A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna
CIN - U40102BR2012SGC018889

[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]
Head Office, Vidyut Bhawan, Bailey Road, Patna -800021,
Telephone No. 0612-2504655, Email address - sldc.bseb@gmail.com
Fax No. 0612-2504655 Website - www.bsptcl.in

Date... 07.08.2020

Letter No. 222
S.O cell/SLDC/TA/AFM BGCL/24/2017 (Part-II)

From,

A.K. Chaudhary
Chief Engineer (System Operation)
BSPTCL, Patna

To,

AGM-O & M (Commercial)
Bihar Grid Company Limited
2nd floor, Alankar place, Boring Road
Patna, 800001

Subject: - BGCL Transmission system availability Certification of month June-2020

Ref: - JV/PT/BG/O&M/Availability/June'20, Dated:13.07.2020
Sir,

With reference to above, Transmission system availability certification of BGCL System for 220 KV and 132 KV computed as per CERC regulation 2014 for the month of June-2020 as detailed below :-

Month	% Availability of BGCL Transmission System
June-2020	99.997

Yours faithfully

(A.K. Chaudhary)
Chief Engineer (System Operation)
BSPTCL, Patna

R.V

R.V



Bihar State Power Transmission Company Ltd., Patna
A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna
CIN – U40102BR2012SGC018889

[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]
Head Office, Vidyut Bhawan, Bailey Road, Patna -800021,
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Fax No. 0612-2504655 Website – www.bsptcl.in

Letter No. 237

S.O.cell/SLDC/TAFM BGCL/24/2017 (Part-II)

Date...11/09/2020

From,

A.K. Chaudhary
Chief Engineer (System Operation)
BSPTCL, Patna

To,

AGM-O & M (Commercial)
Bihar Grid Company Limited
2nd floor, Alankar place, Boring Road
Patna, 800001


Subject: - BGCL Transmission system availability Certification of month July-2020

Ref: - JV/PT/BG/O&M/Availability/July'20/772, Dated: 13.08.2020
Sir,

With reference to above, Transmission system availability certification of BGCL System for 220 KV and 132 KV computed as per CERC regulation 2014 for the month of July-2020 as detailed below :-

Month	% Availability of BGCL Transmission System
July-2020	99.922 %

Yours faithfully


(A.K. Chaudhary)
Chief Engineer (System Operation)
BSPTCL, Patna



Bihar State Power Transmission Company Ltd., Patna

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[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]

Head Office, Vidyut Bhawan, Bailey Road, Patna -800021,

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Fax No. 0612-2504655 Website – www.bsptcl.in

Letter No.

S.O.cell/SLDC/TAFM BGCL/24/2017 (Part-II)

Date.....

From,

A.K. Chaudhary
Chief Engineer (System Operation)
BSPTCL, Patna

To,

AGM-O & M (Commercial)
Bihar Grid Company Limited
2nd floor, Alankar place, Boring Road
Patna, 800001

Subject: - BGCL Transmission system availability Certification of month August & September-2020.

- Ref: - (i) JV/PT/BG/O&M/Availability/Amnour/1074 dated 12.11.2020
(ii) BGCL/O&M/Patna/Availability/Sep'20/1045 dated 30.10.2020
(iii) BGCL/O&M/Patna/Availability/Aug'20/957 dated 24.09.2020

Sir,

With reference to above, Transmission system availability certification of BGCL System for 220 KV and 132 KV computed as per CERC regulation 2014 for the month of August & September-2020 as detailed below :-

Month	% Availability of BGCL Transmission System
August - 2020	99.82 %
September-2020	99.90 %

Yours faithfully

Sd/-

(A.K. Chaudhary)
Chief Engineer (System Operation)

Memo No.....354

Copy forwarded to:-

Dated...15/12/2020

- Chief Engineer (Commercial) SBPDCL, Patna for kind information.
- Chief Engineer (Commercial) NBPDC, Patna for kind information.
- Chief Engineer (PMC) BSPHCL, Patna for kind information.

(A.K. Chaudhary)
Chief Engineer (System Operation)



Bihar State Power Transmission Company Ltd., Patna
 A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna
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 Fax No. 0612-2504655 Website - www.bsptcl.in

Letter No.

S.O.cell/SLDC/TAFM BGCL/24/2017 (Part-II)

Date.....

From,

A.K. Chaudhary
Chief Engineer (System Operation)
BSPTCL, Patna

To,

AGM-O & M (Commercial)
Bihar Grid Company Limited
2nd floor, Alankar place, Boring Road
Patna, 800001

Subject: - BGCL Transmission system availability Certification of month October-2020.

Ref: - (i) BGCL/O&M/Patna/Availability/Oct'20/1090 dated 17.11.2020
 (ii) BGCL email dated 17.12.2020

Sir,

With reference to above, Transmission system availability certification of BGCL System for 220 KV and 132 KV computed as per CERC regulation 2014 for the month of October -2020 as detailed below :-

Month	% Availability of BGCL Transmission System
October - 2020	99.97 %

Yours faithfully

Sd/-

(A.K. Chaudhary)
Chief Engineer (System Operation)

Memo No.....**363**

Dated....**18/12/2020**

Copy forwarded to:-

- i)** Chief Engineer (Commercial) SBPDCL, Patna for kind information.
- ii)** Chief Engineer (Commercial) NBPDCCL, Patna for kind information.
- iii)** Chief Engineer (PMC) BSPHCL, Patna for kind information.

(A.K. Chaudhary)

Chief Engineer (System Operation)

22



Bihar State Power Transmission Company Ltd., Patna

A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna

CIN – U40102BR2012SGC018889

[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]

Head Office, Vidyut Bhawan, Bailey Road, Patna -800021,

Telephone No. 0612-2504655, Email address - sldc.bseb@gmail.com

Fax No. 0612-2504655 Website – www.bsptcl.in

Letter No.

S.O.cell/SLDC/TAFM BGCL/24/2017 (Part-II)

Date.....

From,

A.K. Chaudhary
Chief Engineer (System Operation)
BSPTCL, Patna

To,

AGM-O & M (Commercial)
Bihar Grid Company Limited
2nd floor, Alankar place, Boring Road
Patna, 800001

Subject:- Transmission System Availability Certificate for BGCL for the month November-2020.

Ref: - (i) BGCL/O&M/Patna/Availability/Nov'20/1125 dated 14.12.2020
(ii) BGCL email dated 11.01.2021

Sir,

With reference to the above, SLDC has received the computation of transmission system availability with interruption details of Transmission network for the month November -2020, computed in accordance with the BERC (Multi Year Transmission Tariff) Regulations, 2018.

The overall Transmission System Availability of the Transmission network for the month November -2020, computed in accordance with Appendix-II of the BERC (MYT) Regulations, 2018, and after considering the provisions of BERC (MYT) Regulations, 2018, is **99.991 %**.

Yours faithfully

Sd/-

(A.K. Chaudhary)
Chief Engineer (System Operation)

Memo No..24

Copy forwarded to:-

Dated..12/01/2021

- i) Chief Engineer (Commercial) SBPDCL, Patna for kind information.
- ii) Chief Engineer (Commercial) NBPDCCL, Patna for kind information.
- iii) Chief Engineer (PMC) BSPHCL, Patna for kind information.

(A.K. Chaudhary)

Chief Engineer (System Operation)



Bihar State Power Transmission Company Ltd., Patna

A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna

CIN – U40102BR2012SGC018889

[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]

Head Office, Vidyut Bhawan, Bailey Road, Patna -800021,

Email address - sldc.bseb@gmail.com

Website – www.bsptcl.in

Letter No.....73.....
S.O.cell/SLDC/TAFM BGCL/04/2021

Date...09/02/2021

From,

Sri A.K. Chaudhary
Chief Engineer (System Operation)
BSPTCL, Patna

To,

AGM-O & M (Commercial)
Bihar Grid Company Limited
2nd floor, Alankar place, Boring Road
Patna, 800001

Sub:- Transmission System Availability Certificate for BGCL for the month December-2020.

Ref: - (i) *BGCL/O&M/Patna/Availability/Dec'20/39 dated 20.01.2021*

Sir,

With reference to the above, SLDC has received the computation of transmission system availability with interruption details of Transmission network for the month December -2020, computed in accordance with the BERC (Multi Year Transmission Tariff) Regulations, 2018.

The overall Transmission System Availability of the Transmission network for the month December -2020, computed in accordance with Appendix-II of the BERC (MYT) Regulations, 2018, and after considering the provisions of BERC (MYT) Regulations, 2018, is **99.89 %**.

Yours faithfully


(A.K. Chaudhary)

Chief Engineer (System Operation)



Bihar State Power Transmission Company Ltd., Patna

A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna

CIN – U40102BR2012SGC018889

[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]

Head Office, Vidyut Bhawan, Bailey Road, Patna -800021,

Email address - sldc.bseb@gmail.com

Website - www.bsptcl.in

Letter No.....

S.O.cell/SLDC/TAFM BGCL/04/2021

Date.....

From,

Sri A.K. Chaudhary
Chief Engineer (System Operation)
BSPTCL, Patna

To,

AGM-O & M (Commercial)
Bihar Grid Company Limited
2nd floor, Alankar place, Boring Road
Patna, 800001

Sub:- Transmission System Availability Certificate for BGCL for the month January-2021.

Ref: - (i) BGCL/O&M/Patna/Availability/Jan'21/201 dated 04.03.2021

Sir,

With reference to the above, SLDC has received the computation of transmission system availability with interruption details of Transmission network for the month January-2021, computed in accordance with the BEREC (Multi Year Transmission Tariff) Regulations, 2018.

The overall Transmission System Availability of the Transmission network for the month January-2021, computed in accordance with Appendix-II of the BEREC (MYT) Regulations, 2018, and after considering the provisions of BEREC (MYT) Regulations, 2018, is **98.01 %**.

Yours faithfully

Sd/-

(A.K. Chaudhary)
Chief Engineer (System Operation)

Memo No.....

Dated.....

Copy forwarded to:-

- i) Chief Engineer (Commercial) SBPDCL, Patna for kind information.
- ii) Chief Engineer (Commercial) NBPDC, Patna for kind information.
- iii) Chief Engineer (PMC) BSPHCL, Patna for kind information.


(A.K. Chaudhary)

Chief Engineer (System Operation)



Bihar State Power Transmission Company Ltd., Patna

A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna
CIN – U40102BR2012SGC018889

[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]

Head Office, Vidyut Bhawan, Bailey Road, Patna -800021,

Email address - sldc.bseb@gmail.com

Website – www.bsptcl.in

Letter No.....

S.O.cell/SLDC/TAFM BGCL/04/2021

Date.....

From,

Sri A.K. Chaudhary
Chief Engineer (System Operation)
BSPTCL, Patna

To,

AGM-O & M (Commercial)
Bihar Grid Company Limited
2nd floor, Alankar place, Boring Road
Patna, 800001

Sub:- Transmission System Availability Certificate for BGCL for the month February-2021.

Ref: - (i) BGCL/O&M/Patna/Availability/Feb '21/244 dated 18.03.2021

Sir,

With reference to the above, SLDC has received the computation of transmission system availability with interruption details of Transmission network for the month February-2021, computed in accordance with the BERC (Multi Year Transmission Tariff) Regulations, 2018.

The overall Transmission System Availability of the Transmission network for the month February-2021, computed in accordance with Appendix-II of the BERC (MYT) Regulations, 2018, and after considering the provisions of BERC (MYT) Regulations, 2018, is **99.74 %**.

Yours faithfully

Sd/-

(A.K. Chaudhary)
Chief Engineer (System Operation)

Dated.....

Memo No.....

Copy forwarded to:-

- i) Chief Engineer (Commercial) SBPDCL, Patna for kind information.
- ii) Chief Engineer (Commercial) NBPDC, Patna for kind information.
- iii) Chief Engineer (PMC) BSPHCL, Patna for kind information.

(A.K. Chaudhary)

Chief Engineer (System Operation)

175

08-04-21

21



Bihar State Power Transmission Company Ltd., Patna

A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna

CIN – U40102BR2012SGC018889

[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]

Head Office, Vidyut Bhawan, Bailey Road, Patna -800021,

Email address - sldc.bseb@gmail.com

Website – www.bsptcl.in

Letter No.....
S.O.cell/SLDC/TAFM BGCL/04/2021

Date.....

From,

Sri A.K. Chaudhary
Chief Engineer (System Operation)
BSPTCL, Patna

To,

AGM-O & M (Commercial)
Bihar Grid Company Limited
2nd floor, Alankar place, Boring Road
Patna, 800001

Sub:- Transmission System Availability Certificate for BGCL for the month March-2021.

Ref: - (i) JV/PT/BG/O&M/Availability/March '21/294 dated 07.04.2021

Sir,

With reference to the above, SLDC has received the computation of transmission system availability with interruption details of Transmission network for the month March-2021, computed in accordance with the BERC (Multi Year Transmission Tariff) Regulations, 2018.

The overall Transmission System Availability of the Transmission network for the month March-2021, computed in accordance with Appendix-II of the BERC (MYT) Regulations, 2018, and after considering the provisions of BERC (MYT) Regulations, 2018, is **99.98 %**.

Yours faithfully

Sd/-


(A.K. Chaudhary)
Chief Engineer (System Operation)

Memo No.....**189**.....

Dated.....**23-04-21**.....

Copy forwarded to:-

- i) Chief Engineer (Commercial) SBPDCL, Patna for kind information.
- ii) Chief Engineer (Commercial) NBPDC, Patna for kind information.
- iii) Chief Engineer (PMC) BSPHCL, Patna for kind information.


(A.K. Chaudhary)
Chief Engineer (System Operation)



Bihar State Power Transmission Company Ltd., Patna
A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna
CIN – U40102BR2012SGC018889
[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]
Head Office, Vidyut Bhawan, Bailey Road, Patna – 800021,

Letter No. 12/
File no. SE/DC/S.O./cell/SE/DC/BGCL/22/2017

Dated. 06-01-2022

From,

Chief Engineer (System Operation)
Bihar State Power Transmission Co. Ltd.

To

AGM- O&M (Commercial)
Bihar Grid Company Limited
2nd floor, Alankar place, Boring Road
Patna, 800001

Sub: Certification of Energy accounting of BGCL power system for the period of FY 2020-21.

Ref: Your office letter no. JV/PT/BG/O&M/Energy Loss/14, dated 05.01.2022.

Sir,

With reference to the subject mentioned, monthly energy loss in the transmission system of BGCL is prepared as per the compliance to *Directive 3: Energy Audit, of "Transmission Tariff order for FY 2020-21 for BGCL"* dated 20.03.2020 of BEREC. All the interface points of BGCL and BSPTCL are considered in the calculation of transmission loss of BGCL system.

Monthly energy accounting and hence loss in BGCL system has been prepared on the basis of data received from BGCL as well as in our system from AMR. In compliance of the above mentioned directive, energy loss % in the BGCL power system for the period of FY 2020-21 is as follows:-

S.N.	Month	Loss (In%)
1	April'20	1.1828809
2	May'20	1.43869379
3	June'20	1.47051461
4	July'20	1.44355845
5	August'20	1.31054196
6	September'20	1.58821284
7	October'20	0.86283073
8	November'20	0.78560674
9	December'20	1.18068613
10	January'21	1.5469755
11	February'21	1.28339673
12	March'21	1.08235856

Encl: as above

Yours faithfully

(A. K. Chaudhary)

Chief Engineer (System Operation)