



बिहार विद्युत विनियामक आयोग  
Bihar Electricity Regulatory Commission

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Letter No.-BERC-Cme-51/18-1514 Patna, Dated:- 19/12/18

To  
The Chief Engineer (Power Management Cell)  
Bihar State Power Transmission Company Ltd.  
Vidyut Bhawan, J. L. Nehru Marg, Patna-21

Sub: - Additional information/ clarification of BSPTCL - Tariff Petition for control period of FY 2019-20 to FY 2021-22

Ref: BERG Case No. 51/2018

Sir,

I am directed to inform that consequent upon filling of Tariff Petition by BSPTCL for True up of FY 2017-18, APR of FY 2018-19 and ARR of MYT control period 2019-20 to FY 2021-22, commission has gone through the tariff petition and required additional information/ on the following. However, the submitted petition is still under scrutiny by the Commission and further additional informations/clarifications may be sought in due course as and when requires.

1. Reply to the letter dated 23.11.2018 on the queries raised on Business Plan.
2. Scheme wise and element wise capitalization details for FY 2017-18 may please be furnished.
3. Assets capitalised during FY 2017-18 is at Rs.1391.30 crore (Table 6) and capitalisation through CWIP is at Rs.1255.90 crore (Table 5). Details for the difference may be reported giving particulars of direct additions to assets.
4. Disposal of land of Rs.2.28 crore (Note-1) is shown in the audited accounts for FY 2017-18. Details may be furnished with regard to amount realised vs book value and adjustments made in the accounts.
5. Opening grants (Table 7) is adopted at Rs.1401.47 crore for FY 2017-18. The Commission has approved closing grants at Rs.1636.04 crore in true up for FY 2016-17 in tariff order dated 07.03.2018. Reasons for adopting Rs.1401.47 crore may be reported.
6. Addition to grants during FY 2017-18 (Table 7) is shown at Rs.37.36 crore. The audited accounts shows Rs.220.36 crore (Note-14) is received towards consumer contribution. Details of the consumer contribution may be furnished along with nature of work and status of work for which the amount is received along with reason for not considering the total amount towards addition to grants for computation of depreciation, etc.

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Sin Sidhant, ABER  
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7. The opening grants for FY 2018-19 was adopted at Rs.1653.20 crore (Table 31), however, the closing grants for FY 2017-18 are at Rs.1438.83 cr (Table 7). Similarly, the Opening GFA for FY 2018-19 is adopted at Rs.6385.61 cr (Table 31) whereas closing GFA is at Rs. 6372.2 cr for FY 2017-18 (Table 7). Reasons for inconsistency may be reported. The discrepancy has consequential effect on computation of depreciation for FY 2018-19 to FY 2021-22.
8. Rate of depreciation is adopted at 5.28%. The effective rate of depreciation shall be worked based on the actual depreciation as per audited accounts for FY 2017-18 and the same shall be adopted for FY 2018-19 onwards subject to true up based on audited accounts of relevant year.
9. Interest on loan is claimed at Rs.42.69 crore (Note 24) in truing up based on the audited accounts for FY 2017-18. Reasons may be reported in view Regulation 73 [read with regulation 71(1)(i)] of BERC Regulations 2007.
10. The Commission had approved closing equity at Rs.321.22 cr (equity w.e.f. 1.4.2015) in truing up for FY 2016-17 in Tariff order dated 07.03.2018 the same should have been adopted as opening equity for FY 2017-18. However, the opening equity is adopted at Rs.1239.24 cr (equity w.e.f. 1.4.2015). Reasons may be reported. The discrepancy has consequential effect on computation of RoE for FY 2018-19 to FY 2021-22.
11. Mode of financing of upcoming projects (Para 3.2) is shown at 80% loan and 20% equity from State Govt. However, for computation of RoE (Table 45) equity addition is considered at 30% of the capitalisation. Reasons may be reported.
12. Mode of financing of upcoming projects (Para 3.2) is shown at 80% loan and 20% equity from State Govt. However, for computation of interest on (Table 32) loan addition during the year (FY 2018-19 to FY 2021-22 year on year) different values are considered irrespective of capitalisation. Further, repayment of loan is not considered year on year. Reasons may be reported.
13. Details of holding company expenses claimed for FY 2017-18 may be provided alongwith related bills/letter of correspondence claiming the expenses by BSPHCL. Copy of accounts of the holding company may be provided. Further, reasons for incurring huge expenses during FY 2017-18 may also be reported.
14. Copy of the IT assessment for FY 2017-18 (Assessment year 2018-19) may be furnished.
15. The Commission had approved Rs.623.58 crore towards transmission charges for FY 2017-18 in Tariff order dated 09.03.2017, however as per audited accounts for FY

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2017-18 the transmission charges are shown at Rs.583.28 crore. Reasons for the difference of Rs.40.30 crore (623.58-583.28) may be reported.

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16. Trial balance for 1<sup>st</sup> half year of FY 2018-19 showing revenue and expenses (account/nature of expenditure head-wise) may be furnished.
17. Certificate of assets actually put use may be furnished in respect of assets put to use during FY 2017-18 and up to November 2018. Further Substation-wise and line-wise energy transmitted/handled during the Year 2017-18 may be furnished.
18. The submitted petition does not contain information/data as required under regulation 11.3 of the Bihar Electricity Regulatory Commission (Multi Year Transmission Tariff and SLDC Charges) Regulations, 2018. Provide the following which are essential to be submitted along with petition for determination of tariff and charges:
  - A. Soft copy of petition with form and formats, spreadsheet etc alongwith all formulas, link and referances.
  - B. Duly signed with complete information strictly in prescribed format of Form no-SI to Form no-P12 appended to the Bihar Electricity Regulatory Commission (Multi Year Transmission Tariff and SLDC Charges) Regulations, 2018.
19. Non of the form are signed and most of them are not in prescribed format with complete information, inconsistencies observed during examination of the submitted information are detailed below:
  - a) Form P1: for FY 2017-18, there is inconsistency in data provided for losses of BSPTCL. For 132 KV, 24573.45505 MU has been shown as input energy while 21049.89204 MU shown as energy delivered; loss has been shown as 3.11%. Again 26760.45 MU shown as input energy for total energy delivered (Row-D) at intra-state transmission system while 25559.38 MU has been shown as energy delivered to Discoms and consequent losses has been shown as 4.49%. However it has not been mentioned in audited account of BSPTCL. This may be clarified.
  - b) For Form P1, energy handling projection for inter-state system for FY 2019-20, 20-21 and 21-22 is not in consonance with projection done by Discoms in their tariff petition. This may be verified and clarified.
  - c) Form P2, 12765.07 MU has been shown as total energy delivered by BSPTCL to Discoms and Bulk consumers. Again this data is not matching with data provided in form P1. It may be clarified.
  - d) For Form P3, details for 132 KV and 33 KV may be provided.
  - e) Form P7, data for 220 KV and 132 KV has been provided only for GSS Biharsharif. This may be clarified.

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- f) Form P8, details of force majeure load shedding condition may be provided.
  - g) Form P9, in 132 KV Kishanganj new has zero overloading data. Reason for mentioning Kishanganj GSS may be provided. For FY 2020-21 and FY 21-22, 220 KV Begusarai feeders has been shown overloaded by 34% and 132 KV Madhepura for FY 2021-22 has still been shown as 80 which is in contrast to huge capital expenditure incurred by BSPTCL in Tariff Petition. This may please be clarified.
  - h) Form P10 may be submitted circle wise.
  - i) Form P12 has been left blank. Details may be provided.
  - j) Form F3, prima facie it appears connected load projection is incorrect and not in consonance with Discoms. It may please be verified.
  - k) Form F4, revenue for MYT period from current tariff has been taken same as projected revenue required by the licensee for the MYT period (FY 2019-20 to FY 2020-21). This may please be clarified.
  - l) Form F5-1, partial details have been furnished. Details of Transmission lines, substations and Transformers details have not been provided for MYT period (FY 2019-20 to FY 2020-21). This may please be furnished.
  - m) Form F7-1, details of Loan, Equity, Grants may be furnished.
  - n) Total no of employee in Form 14 appears to be erroneous which may be verified and re- submitted.
  - o) It appears arithmetical error in Form 14 for no of employee per MU. Corrected data may be furnished.
  - p) Form F15- Component wise R&M expenses for current Year and MYT period has not been furnished. It may please be furnished.
  - q) Form 16- Details with bills and vouchers for previous year and current year for following component may be furnished:
    - (i) any other expenses and (ii) conveyance and Travel
  - r) Form 18- Non tariff income for any other component may please be furnished.
  - s) Details of Form F21 have not been furnished. It may please be furnished.
  - t) Form P11- Component wise data may be provided for current year and ensuing year with purpose of loan.
  - u) Form P2- Details furnished in hard copy and soft copies are different. Correct details may please be furnished. Similarly figures of Form P4, P5 in hard copy and soft copy are different.
  - v) Form P11- Details regarding types of transformers (new or old) with Commissioning date and warranty may be provided.

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w) Form F5 left blank in soft copy. However F5-1 to F5-7 is not provided in soft form as well as hard form. Data may be provided in soft form also.

It is therefore, requested to submit additional information/clarification on or before 24.12.2018 positively in 6 copies with soft copy supported by affidavit.

Yours faithfully

*R. J. ...*  
19/12/18  
**Secretary**



## **BIHAR STATE POWER TRANSMISSION COMPANY LIMITED**

(Reg. Office: 4<sup>th</sup> Floor, Vidyut Bhawan, Bailey Road, Patna-800021)

(CIN- U40102BR2012SGC018889)

(Department of Power Management Cell)

**Para wise reply of BSPTCL on the queries raised by Hon'ble Commission as additional information / clarification of BSPTCL – Tariff Petition for control period from FY 2019-20 to FY 2021-22 vide letter no.- 1514, dated – 19/12/2018 with reference to BERC Case No.- 51/2018**

### **Point No. 1-**

The additional submission on the queries raised by Hon'ble Commission has been submitted vide letter no.- 379, dated – 20/12/2018 and Revised Business Plan as well additional information has also been submitted vide letter no.- 389, dated – 28/12/2018

### **Point No. 2-**

Scheme wise and element wise capitalization details for FY 2017-18 is as under:

<b>Sl No</b>	<b>Scheme</b>	<b>Particulars of Element</b>	<b>Amount (In Rs.)</b>	<b>DOC</b>
1	State Plan	132 kv Begusarai to teghara trns line	19,58,78,742.00	23-02-2018
2	State Plan	132 kv Dalkhola to kishanganj trns line	49,67,567.00	20-01-2018
3	State Plan	132 KV Fatuha - Gaighat - Katra	24,24,57,110.00	29-03-2018
4	State Plan	132 KV Gaurichak to Jakkanpur	19,55,79,724.00	29-03-2018
5	State Plan	132 KV Gaurichak to Mithapur & Fatuha	15,53,43,337.00	28-02-2018
6	State Plan	132 kv kishanganj to Barsoi trns line	50,49,58,869.00	06-02-2018
7	State Plan	132 kv Kishanganj to Farbisganj trns line	1,87,35,979.00	11-04-2017
8	State Plan	132 kv Purnea to saharsha trns line	64,51,158.00	18-12-2017
9	State Plan	132 kv Pusauli to Bhabhua Trans line	16,81,12,826.00	08-09-2017
10	State Plan	132 kv Sonbarsha to Simri Bakhtiyarpur Trans line	7,40,47,349.00	28-07-2017
11	State Plan	132kv sultanGanj Jamalpur to Tarapur trns line	10,84,92,027.00	05-10-2017
12	State Plan	132 kv Trans line BikramGanj To Piro	8,74,86,775.00	09-03-2018
13	BRGF	132 kv Trans line Imamganj to Sherghati	5,70,81,922.00	01-04-2017
14	State Plan	132 kv Trans line Pusauli	10,14,24,532.00	29-03-2018

		to Mohania		
15	BRGF	132 Kv Tr Line Ataulah to Goh	21,07,59,057.00	05-02-2018
16	BRGF	132 Kv Tr Line Motihari-Betiah	19,24,84,978.00	31-08-2017
17	State Plan	220 kv Trans line MTPS to Gopalganj	13,66,71,597.00	01-12-2017
18	BRGF	220 Kv Tr. Line Darbhanga to Darbhanga	8,33,24,683.00	02-08-2017
19	BRGF	220 Kv Tr Line Darbhanga to Samastipur	41,66,23,415.00	28-03-2017
20	IRF	Fault Locator	76,78,071.00	21-09-2017
21	BRGF	Kishanganj Old-KIshanganj New (132Kv)	14,97,91,586.00	03-02-2018
22	BRGF	Reconductring of 132 kv Trans line Purnea(pg) to Purnea (bsptcl)	2,41,31,584.00	24-10-2017
23	State Plan	Tr Line 132Kv Jainagar-Phulparas	21,95,76,502.00	23-11-2017
24	BRGF	Tr Line 132Kv Kanti-Motihari	1,76,87,095.00	07-04-2017
25	BRGF	Tr Line 132Kv Kanti-Pitampura	57,82,03,457.00	31-03-2018
26	State Plan	Tr Line 132Kv Motihari - Pakridyal	16,27,04,223.00	12-03-2018
27	State Plan	Tr Line 132Kv Motipur-Chakia	11,36,11,509.00	11-01-2018
28	BRGF	Tr Line 220Kv Darbhanga-Kanti(MTPS)	48,05,01,898.00	07-06-2017
29	BRGF	Tr Line 220Kv Motipur - Darbhanga	81,19,75,562.00	06-11-2017
30	State Plan	Tr LIne Banka (Old)-Banka (New)	18,08,24,327.00	02-02-2018
31	BRGF	Tr Line Darbhanga to MTPS (220Kv LILO)	36,42,48,526.88	28-03-2018
32	BRGF	Tr Line Kishanganj-Forbesganj(132Kv)	53,26,26,659.00	17-03-2018
33	BRGF	Tr Line Kishanganj Kishanganj(PGCIL 220Kv)	10,89,39,336.00	19-01-2018
34	BRGF	Tr Line Kusheshwarsthan to Sonebarsa	66,42,14,251.85	08-01-2018
35	BRGF	Tr Line Motihari (400/132KV) to Motihari ( 132/33 Kv)	8,92,72,559.00	16-03-2018
36	BRGF	Tr Line Motihari -Raxaul (132Kv)	29,83,30,930.00	05-02-2018
37	BRGF	Tr Line Mushahari to Sitamarhi ( 132/33Kv)	53,79,60,714.12	10-04-2017
38	BRGF	Tr Line- Udaikishanganj-Sonebarsa	48,70,90,451.36	01-04-2017
39	State Plan	132/33 kv gss at Chakiya	12,48,17,895.00	28-03-2018
40	State Plan	132/33 kv gss at Mahnaar	21,02,69,019.00	28-11-2017



41	BRGF	132 KV Bay at Gss MadhubaniDalsinghsarai Ram Nagar Jandaha	11,68,67,840.00	28-03-2018
42	State Plan	132Kv GSS Areraj	19,97,18,630.00	21-03-2018
43	State Plan	132 Kv GSS Hathua	19,17,27,535.00	21-03-2018
44	ADB	220/132 KV S/S Pusauli with Bays	1,12,68,232.00	21-03-2018
45	BRGF	Augmentation of GSS Bodhgaya/Rafiganj	9,25,03,364.00	01-04-2017
46	State Plan	Aug of 132/33Kv GSS Simri Bakhtiyarpur	23,76,37,738.00	16-03-2018
47	State Plan	Aug of 132/33KV Gss Tarapur	19,63,12,765.00	28-09-2017
48	BRGF	Aug of GSS 132/33Kv HJP,Pandaul,GopalGanj, Siwan, Motihari	40,29,03,781.00	09-10-2017
49	BRGF	Aug of GSS- 132/33Kv Sonngr/Aurngabd/Dehri/Buxar	20,82,22,474.00	04-08-2017
50	BRGF	Augmentation of GSS Kahalgaon/Banka	23,06,92,461.00	01-04-2017
51	BRGF	GSS 132/33 KV Aara	4,23,910.00	01-04-2017
52	BRGF	GSS 132/33 KV Chandauti	3,66,933.00	01-04-2017
53	BRGF	GSS 132/33 KV Hathidah	3,63,166.00	01-04-2017
54	BRGF	GSS 132/33 KV kusheswarsthan	6,92,44,116.00	01-04-2017
55	BRGF	GSS 132/33 KV Sonebarsa/Udakishanganj /kataia	12,61,45,158.00	01-04-2017
56	BRGF	GSS 132/33 KV Sultanganj	1,83,525.00	01-04-2017
57	State Plan	GSS Balia	19,72,47,735.00	14-12-2017
58	BRGF	GSS Chandauti/Nawada/Rafiganj	18,12,01,100.00	01-04-2017
59	ADB	GSS Dhanha	16,05,72,962.00	08-02-2018
60	State Plan	Gss Manjhaul	21,31,48,282.00	14-12-2017
61	BRGF	GSS Motipur	70,64,35,610.00	28-03-2018
62	BRGF	GSS Seohar	27,72,59,661.00	16-12-2017
63	ADB	Other Plant Equipment	6,87,50,166.00	01-04-2017
64	<b>IRF</b>	Transformer	5,87,84,251.00	15-09-2017
65	BRGF	Transformer Bay at GSS Ataula	3,43,04,573.00	03-06-2017
66	State Plan	Transformer Bay at GSS BANKA	2,95,65,135.00	30-11-2017
67	BRGF	Transformer Bay at GSS Darbhanga Sitamadhi,& Others	11,41,85,264.00	28-03-2018
68	BRGF	Transformer Bay at GSS Goh	3,07,82,681.00	03-06-2017
69	State Plan	Transformer Bay at GSS Jamui	3,17,41,334.00	29-03-2018



70	BRGF	Transformer Bay at GSS Kataiya & Madhepura	3,06,61,949.00	13-10-2017
71	BRGF	Transformer Bay at GSS Masaurhi, Katra, Digha & Khagaul	9,53,11,283.00	18-08-2017
72	BRGF	Transformer Bay at GSS Rajgir Ekangarsarai & Shekhpura	5,91,14,229.00	25-06-2017
73	BRGF	Transformer Bay at GSS Ramnagar Dalsinghsarai & Dhanha, Betiya	12,22,65,659.00	08-09-2017
74	IRF	Transformer- 50MVA	4,17,54,610.00	26-04-2017
75	IRF	Plant & Machinery	4,24,20,554.00	20-03-2018
76	IRF	Other Plant Equipments	5,04,94,976.00	13-03-2018
77	BRGF	Boundary Wall for Motipur GSS	15,51,183.00	07-02-2018
78	IRF	Furniture Fixture Including Interior	1,03,45,823.00	21-03-2018
79	ADB	Computer Printer	1,37,71,439.00	21-03-2018
80	IRF	Land	13,14,02,654.00	28-09-2017
<b>TOTAL</b>			<b>13,91,29,92,544.21</b>	

Total amount capitalized during Financial Year FY 2017-18 is Rs. 13,91,29,92,544.21/- (Rupees Thirteen Hundred Ninety One Crore and Twenty Nine Lakh Ninety Two Thousand Five Hundred Fifty Four) Only.

### Point No. 3-

Total Assets capitalized in FY 2017-18 is Rs. 13,91,29,92,544.21. Out of which Rs. 12,55,90,20,484.21 has been capitalized through CWIP. Balance Rs. 1,23,90,55,347.00 has been directly added to assets after capitalization of respective assets based on ToC. Details are as under:

S.No	Particulars of Assets	Amount	Capitalisation through CWIP	Direct Capitalisation
1	132 kv Begusarai to teghara trns line	19,58,78,742.00	18,99,22,907.00	59,55,835.00
2	132 kv Dalkhola to kishanganj trns line	49,67,567.00	48,83,064.00	84,503.00
3	132 KV Fatuha - Gaighat - Katra	24,24,57,110.00	21,38,80,299.00	2,85,76,811.00
4	132 KV Gaurichak to Jakkanpur	19,55,79,724.00	19,47,06,423.00	8,73,301.00
5	132 KV Gaurichak to Mithapur & Fatuha	15,53,43,337.00	1,54,10,965.00	13,99,32,372.00
6	132 kv kishanganj to Barsoi trns line	50,49,58,869.00	42,32,00,405.00	8,17,58,464.00
7	132 kv Kishanganj to Farbisganj trns line	1,87,35,979.00	1,87,35,979.00	
8	132 kv Purnea to			

	saharsha trns line	64,51,158.00	64,51,158.00	
9	132 kv Pusauli to Bhabhua Trans line	16,81,12,826.00	16,33,87,557.00	47,25,269.00
10	132 kv Sonbarsha to Simri Bakhtiyarpur Trans line	7,40,47,349.00	7,40,47,349.00	
11	132 kv sultanGanj Jamalpur to Tarapur trns line	10,84,92,027.00	10,84,92,027.00	
12	132 kv Trans line BikramGanj To Piro	8,74,86,775.00	7,29,19,602.00	1,45,67,173.00
13	132 kv Trans line Imamganj to Sherghati	5,70,81,922.00	5,70,81,922.00	
14	132 kv Trans line Pusauli to Mohania	10,14,24,532.00	7,75,55,034.00	2,38,69,498.00
15	132Kv Tr Line Ataulah to Goh	21,07,59,057.00	18,77,58,281.00	2,30,00,776.00
16	132Kv Tr Line Motihari-Betiah	19,24,84,978.00	18,96,21,311.00	28,63,667.00
17	220kv Trans line MTPS to Gopalganj	13,66,71,597.00	13,16,50,046.00	50,21,551.00
18	220 KvTr. Line Darbhanga to Darbhanga	8,33,24,683.00	7,48,48,557.00	84,76,126.00
19	220 KvTr Line Darbhanga to Samastipur	41,66,23,415.00	37,42,42,786.00	4,23,80,629.00
20	Fault Locator	76,78,071.00	-	76,78,071.00
21	Kishanganj Old-Kishanganj New (132Kv)	14,97,91,586.00	14,19,75,205.00	78,16,381.00
22	Reconductring of 132 kv Trans line Purnea (pg) to Purnea(bsptcl)	2,41,31,584.00	1,74,13,760.00	67,17,824.00
23	Tr Line 132Kv Jainagar-Phulparas	21,95,76,502.00	19,41,81,722.00	2,53,94,780.00
24	Tr Line 132Kv Kanti-Motihari	1,76,87,095.00	1,76,87,095.00	
25	Tr Line 132Kv Kanti-Pitampura	57,82,03,457.00	54,10,25,845.00	3,71,77,612.00
26	Tr Line 132Kv Motihari -Pakridyal	16,27,04,223.00	15,23,05,171.00	1,03,99,052.00
27	Tr Line 132Kv Motipur-Chakia	11,36,11,509.00	10,64,92,564.00	71,18,945.00
28	Tr Line 220Kv Darbhanga-Kanti (MTPS)	48,05,01,898.00	44,75,90,581.00	3,29,11,317.00
29	Tr Line 220Kv Motipur -Darbhanga	81,19,75,562.00	75,55,43,284.00	5,64,32,278.00
30	Tr Line Banka (Old)-			

	Banka (New)	18,08,24,327.00	18,08,24,327.00	
31	Tr Line Darbhanga to MTPS (220Kv LILO)	36,42,48,526.88	31,46,13,336.88	4,96,35,190.00
32	Tr Line Kishanganj-Forbesganj (132Kv)	53,26,26,659.00	51,22,19,201.00	2,04,07,458.00
33	Tr Line Kishanganj-Kishanganj (PGCIL 220Kv)	10,89,39,336.00	7,52,07,505.00	3,37,31,831.00
34	Tr Line Kusheshwarsthan to Sonebarsa	66,42,14,251.85	66,42,14,251.85	
35	Tr Line Motihari (400/132KV) to Motihari( 132/33 Kv)	8,92,72,559.00	7,54,68,916.00	1,38,03,643.00
36	Tr Line Motihari - Raxaul (132Kv)	29,83,30,930.00	29,83,30,930.00	
37	Tr Line Mushahari to Sitamarhi(132/33Kv)	53,79,60,714.12	53,79,60,714.12	
38	Tr Line-Udaikishanganj-Sonebarsa	48,70,90,451.36	48,70,90,451.36	
39	132/33 kv gss at Chakiya	12,48,17,895.00	11,65,47,798.00	82,70,097.00
40	132/33 kv gss at Mahnaar	21,02,69,019.00	18,89,91,787.00	2,12,77,232.00
41	132 KV Bay at GssMadhubaniDalsinghSarai Ram Nagar Jandaha	11,68,67,840.00	9,57,23,533.00	2,11,44,307.00
42	132Kv GSS Areraj	19,97,18,630.00	15,28,05,282.00	4,69,13,348.00
43	132 Kv GSS Hathua	19,17,27,535.00	15,50,41,600.00	3,66,85,935.00
44	220/132 KV S/S Pusauli with Bays	1,12,68,232.00	-	1,12,68,232.00
45	Augmentation of GSS Bodhgaya/Rafiganj	9,25,03,364.00	9,25,03,364.00	
46	Aug of 132/33Kv GSS Simri -Bakhtiyarpur	23,76,37,738.00	22,90,49,403.00	85,88,335.00
47	Aug of 132/33KV Gss Tarapur	19,63,12,765.00	17,68,48,450.00	1,94,64,315.00
48	Aug of GSS 132/33Kv HJP, Pandaul, Gopalganj, Siwan, Motihari	40,29,03,781.00	40,29,03,781.00	
49	Aug of GSS-132/33Kv Sonngr/Aurngabd/Dehri/Buxar	20,82,22,474.00	19,85,14,524.00	9707950
50	Aug of GSS Kahalgaon/Banka	23,06,92,461.00	23,06,92,461.00	
51	GSS 132/33 KV Aara	4,23,910.00	4,23,910.00	
52	GSS 132/33 KV			

	Chandauti	3,66,933.00	3,66,933.00	
53	GSS 132/33 KV Hathidah	3,63,166.00	3,63,166.00	
54	GSS 132/33 KV kusheswarsthan	6,92,44,116.00	6,92,44,116.00	
55	GSS 132/33 KV Sonebarsa/Udakishanjanj/kataia	12,61,45,158.00	12,61,45,158.00	
56	GSS 132/33 KV Sultanganj	1,83,525.00	1,83,525.00	
57	GSS Balia	19,72,47,735.00	19,55,76,822.00	16,70,913.00
58	GSS Chandauti/ Nawada/Rafiganj	18,12,01,100.00	18,12,01,100.00	
59	GSS Dhanha	16,05,72,962.00	12,35,30,448.00	3,70,42,514.00
60	GssManjhaul	21,31,48,282.00	21,20,48,239.00	11,00,043.00
61	GSS Motipur	70,64,35,610.00	61,21,54,464.00	9,42,81,146.00
62	GSS Seohar	27,72,59,661.00	24,59,87,997.00	3,12,71,664.00
63	Other Plant Equipment	6,87,50,166.00	5,35,57,888.00	15192278
64	Transformer	5,87,84,251.00	-	5,87,84,251.00
65	Transformer Bay at GSS Ataula	3,43,04,573.00	3,36,36,623.00	6,67,950.00
66	Transformer Bay at GSS BANKA	2,95,65,135.00	2,89,65,135.00	6,00,000.00
67	Transformer Bay at GSS Darbhanga Sitamadhi,& Others	11,41,85,264.00	11,25,02,234.00	16,83,030.00
68	Transformer Bay at GSS Goh	3,07,82,681.00	3,07,21,781.00	60,900.00
69	Transformer Bay at GSS Jamui	3,17,41,334.00	2,83,98,605.00	33,42,729.00
70	Transformer Bay at GSS Kataiya & Madhepura	3,06,61,949.00	3,03,89,281.00	2,72,668.00
71	Transformer Bay at GSS Masaurhi, Katra, Digha&Khagaul	9,53,11,283.00	9,39,74,137.00	13,37,146.00
72	Transformer Bay at GSS Rajgir Ekangarsarai & Shekhpura	5,91,14,229.00	5,91,14,229.00	
73	Transformer Bay at GSS Rammnagar Dalsinghsarai & Dhanha,Betiya	12,22,65,659.00	12,22,65,659.00	
74	Transformer- 50MVA	4,17,54,610.00	-	4,17,54,610.00



75	Plant & Machinery	4,24,20,554.00	-	4,24,20,554.00
76	Other Plant Equipments	5,04,94,976.00	1,75,52,133.00	3,29,42,843.00
77	Boundary Wall for Motipur GSS	15,51,183.00		
78	Furniture Fixture Including Interior	1,03,45,823.00		
79	Computer Printer	1,37,71,439.00		
80	Land	13,14,02,654.00		
81	Interest on mobilisation advance		3,00,06,453.00	
82	Rectification Entry in CWIP		1,21,47,933.00	
	<b>TOTAL</b>	<b>13,91,29,92,544.21</b>	<b>12,55,90,20,484.21</b>	<b>1,23,90,55,347.00</b>

**Point No. 4-**

Rs 2,27,92,596.00/- (Rupees Two Crore Twenty Eight Lakh) only relates to advance against Purchase of Land at Sonenagar (Dehri – on – Sone). Initially, it was wrongly added to land value instead of advance for land. In F.Y 2017-18 the amount was returned to BSPTCL by Land Acquisition Officer. Hence, the same has been reduced from the total land value.

**Point No. 5-**

Opening grant amounting to Rs. 1401.47 crore has been taken from Audited Annual Accounts for FY 2016-17. The detailed break up has been provided in Form No.- F 8 of tariff formats

Sr.No.	Particulars	Previous Year		
		Balance at the start of the year	Additions	Balance at the end of the Year
1	User contributions Towards Cost Of Capital Assets			
2	Grant Towards Cost Of Capital Assets	1401.47	220.36	1621.83
A	<b>Total (1+2)</b>	<b>1401.47</b>	<b>220.36</b>	<b>1621.83</b>
<b>Amount utilized for Assets forming part of Depreciable GFA</b>				
3	User contributions Towards Cost Of Capital Assets			0.00
4	Grant Towards Cost Of Capital Assets	1345.43	0.00	1345.43

B	<b>Total (3+4)</b>	<b>1345.43</b>	<b>0.00</b>	<b>1345.43</b>
<b>Amount utilized for Assets forming part of non-Depreciable GFA</b>				
5	User contributions Towards Cost Of Capital Assets			0.00
6	Grant Towards Cost Of Capital Assets			
C	<b>Total (5+6)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Amount remains un-utilized (A-B-C)</b>				
7	User contributions Towards Cost Of Capital Assets			0.00
8	Grant Towards Cost Of Capital Assets	56.04	220.36	276.40
C	<b>Total (7+8)</b>	<b>56.04</b>	<b>220.36</b>	<b>276.40</b>
D	Amount utilized for CWIP out of "C" above			
E	Amount kept in Bank out of "C" above			
F	Depreciation on assets created out of grants (Admitted)	84.04		
G	Depreciation. on assets created out of grants (Financial/Statutory Account)	68.49		

**Point No. 6-**

The addition to grants during F.Y 2017-18 pertains to grants received from PSDF and Consumer deposit for various works.

Detail is as under:

<b>Sl. No.</b>	<b>Particulars</b>	<b>Amount</b>
1.	PSDF Grant	37,36,00,000.00
2.	Consumer Contribution for Deposit work	1,83,00,08,390.00
TOTAL		220,36,08,390.00

In Table No. 7 (Tariff Petition submitted to Hon'ble commission vide letter no. 358 Dated 30.11.2018) only Rs. 37.36 crore was taken as grant. However, the grant and user contribution taken in annual accounts for Rs. 220.36 crore has now been taken into addition to grants in table no. 7 and enclosed as revised Tariff Petition (submitted with this reply) and accordingly depreciation is also changed.

**Point No. 7-**

The data has been revised as under accordingly revised Tariff Petition is submitted along with this reply:

S.N	Particulars	Previous Year		Current Year (RE)	Ensuing years		
		Approved in MYT/RE	Actual				
1	Opening Gross Fixed Assets	5026.7	5026.7	6,418.00	9176.7	10439.55	12430
a	Additions in Gross Fixed Assets	3077.24	1,391.30	2758.7	1262.85	1990.45	1596.37
b	Amount of IDC, FC, FERV & Hedging cost included in B(a) above	32.94	5.57	75.74	0	0	0
c	Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a)						
d	d/(Less):Adjustment for assets sold/discarded etc						
2	Closing Gross Fixed Assets	8103.94	6,418.00	9176.7	10439.55	12430	14026.37

1	Gross fixed assets of the beginning of the year	3634.54	5026.7	6418	9176.7	10439.55	12430
	Less: Value of non depreciable assets (i.e land)	0	1,392.15	1,405.29	1,679.89	1,679.89	1,679.89
2	Additions during the year	3044.3	1,391.30	2758.7	1262.85	1990.45	1596.37
	Less: Value of non depreciable assets (i.e land)	0	13.14	274.6	0	0	0
3(i)	IDC, FC, FERV & Hedging cost	32.94	5.57	75.74	0	0	0
3(ii)	Amount of IEDC	0					
4	Adjustment for assets sold/discarded etc	0					
5	Closing GFA	6711.78	5,012.71	7,496.81	8,759.66	10,750.11	12,346.48

**Point No. 8-**

As most of the assets belongs to 5.28% rate of depreciation accordingly rate of depreciation for Financial Year 2018-19 and FY 2019-20 to FY 2021-22 has been considered as same, However the rate of depreciation for FY 2017-18 is comes out to be 5.52% which is as per actual / Audited annual account of BSPTCL. Further the proposed additions are also related to 5.28% of Depreciation rate. As such 5.28% has been considered for calculation.

**Point No. 9-**

Interest on loan is amounting to Rs. 48.27 crore in which Rs. 42.69 crore through PL account and Rs. 5.57 crore through IDC (Interest During Construction) as per the audited annual accounts of FY 2017-18. Hence BSPTCL has been considered interest on loan is Rs. 48.27 crore for FY 2017-18 which is corrected in the revised tariff petition submitted with

this reply. Accordingly, request from the Hon'ble commission to approve the same.

**Point No. 10-**

The data for opening equity for F.Y 2017-18 has been revised. In earlier submission the opening figure was mistakenly taken as Rs 1239.24 Cr instead of Rs. 321.22 Cr. Accordingly ROE for F.Y 2017-18 to F.Y 2021-22 has been revised and submitted in the revised Tariff Petition which enclosed with this reply.

**Point No. 11-**

Computation of RoE has been revised as per ratio of 80% Loan and 20% equity.

SI.	Particulars	Previous Year		Current Year (i.e. RE)		Ensuing years (Projection)		Ensuing years (Projection)			
		Date	Amount	Date	Amount	Date	Amount	Date	Amount	D	Amount
1	Infusion		541.21		536.59		252.57		398.09		319.27
<b>Total</b>			541.21		536.59		252.57		398.09		319.27

Details of Return on equity

Rs. Crores

1	Amount of total asset created during the year	1804.033	2682.95	1262.85	1990.45	1596.35
2	Less asset created from grant	0	0	0	0	0
3	Less asset created from users contribution	0	0	0	0	0
4	Net asset Created	1804.033	2682.95	1262.85	1990.45	1596.35
5	Amount of equity addition	541.21	536.59	252.57	398.09	319.27
6	Equity (Opening Balance)	321.22	862.43	1399.02	1651.59	2049.68
7	Equity (Closing)	862.43	1399.02	1651.59	2049.68	2368.95



	Balance)								
8	Average Equity	<b>591.825</b>		1130.725		1525.305		1850.635	2209.315
9	Base rate of Return on Equity%	<b>15.50%</b>		15.50%		15.50%		15.50%	15.50%
	Tax Rate (Enclose detailed calculate on alongwith supporting documents)%	<b>21.55%</b>		21.55%		21.55%		21.55%	21.55%
	Effective Rate of Return on Equity	<b>19.76%</b>		19.76%		19.76%		19.76%	19.76%
10	Return of Equity (Rs. In crore)	<b>116.94</b>		223.43		301.40		365.69	436.56
11	Equity entitled to incentive								
12	Incentive								
13	Additional Return	<b>52.56</b>		52.56		52.56		52.56	52.56
14	Total Return on Equity	<b>169.50</b>		<b>275.99</b>		<b>353.96</b>		<b>418.25</b>	<b>489.12</b>

**Point No. 12-**

For computation of Interest on loan, loan addition during the year FY 2018-19 to 2021-22 has been calculated on the basis of CWIP amount instead of capitalization amount.

**Point No. 13-**

Holding Company expenses has been claimed in accordance with the Schedule D of Notification No. 17 dated 30.10.2012 of Department of Energy, GoB. Ledger has been enclosed for reference as Annexure A.

**Point No. 14-**

IT Assessment for FY 2017-18 has not been initiated by Income Tax Department. ITR submitted with IT Department in accordance with Section 139(1) of IT Act,1961 for FY 2017-18 is attached for reference as Annexure B.

**Point No. 15-**

The Commission had approved Rs. 623.58 Crore as transmission charges for FY 2017-18 in tariff order dated 09.03.2017. Further as per clause 6.18 of BERC order dated 21<sup>st</sup> March 2016 in case No. 54 of 2015, Hon'ble Commission has reduced Rs. 40.30 Crore. Accordingly, Rs. 583.28 crore has been taken as transmission charges for 2017-18.

**Point No. 16-**

Trial Balance for 1<sup>st</sup> Half of FY 2018-19 is annexed for reference as Annexure C.

**Point No. 17-**

The Certificate of assets actually put to use during FY 2017-18 is enclosed as annexure D. Since the expenditure are actually capitalized at the end of the financial year therefore, certificate for capitalization from April 2018 to November 2018 will be submitted at the time of Truing up for FY 2018-19.

Also sub-station wise and line wise energy transmitted/handled during the FY 2017-18 are annexed as annexure-E- and

**Point No. 18-**

All the formats and soft copy of the petition as well as all the enclosures are attached with this reply

**Point No. 19-**

(a) Form P1 has been revised and annexed in the tariff formats.

The net transmission loss has been calculated from energy meter data from each GSS, The net transmission loss from energy meter reading is showing less than loss % submitted by DISCOM in Energy Accounting (shown below). Replacement of defective energy meters is going on in BSPTCL GSS. It is to say that, actual Energy loss can be calculated accurately once BSPTCL completes the replacement of all defective energy meters by new ABT energy meters which is expected to be completed in coming 3-4 months as per LOI with Secure meters.

(b) Revised P1 form is annexed. Open Access Consumer/Railways (Appx. 438 MU) is part of Transmission system therefore, there is a mismatch.

- (c) Form P2 is revised and annexed. There is a difference since SLDC do not capture energy received from few of the renewable sources i.e. bagasse and solar.
- (d) Form P3 is revised.
- (e) Updated P7 data is annexed.
- (f) Load of NBPDCCL was affected due to Force Majeure i.e. flood/heavy rain & storm during FY 2017-18 in the month of August'2017 (from 20.08.2017 to 23.08.2017). Details is annexed in tariff forms.
- (g) Kishanganj (New) data for overloaded feeder is being deleted as there is no any overloaded. Also modified formats is annexed in tariff foms.
- (h) Updated P10 is enclosed.
- (i) P12 is updated and enclosed.
- (j) Form F3 is revised. Open Access Consumer/Railways (Approx. 438 MU) is part of Transmission system therefore, there is a mismatch.
- (k)Form F4 is revised and annexed.
- (l)Form 5-1 has been updated and annexed.
- (m) Form 7-1 has been updated and annexed.
- (n) Form 14 has been updated and annexed.
- (o)It has been corrected and annexed.
- (p) The component -wise R&M expenses for current year has been filled and for ensuing year 2.5% of Opening GFA as per regulation has been considered. The revised format is enclosed.
- (q) The vouchers and bills are maintained in ledger and therefore, Hon'ble Commission is requested that this can be verified anytime during the scrutiny of the documents for tariff petition. The hard copy of trial balance and expense is enclosed.
- (r) Details has been updated and annexed.
- (s) Details has been updated and annexed.
- (t) Details has been updated and annexed.
- (u) Details has been updated and annexed.
- (v) Details has been updated and annexed.

(w) Part of the formats -F5-2, F5-3,F5-4 requires element -wise data which is difficult to be filled in short span of time. However, efforts are being made for compilation of the same. Other data has been filled.



**INDEX OF FORMATS S1 TO P12 FOR ARR & TARIFF FILING BY TRANSMISSION LICENSEES AND THE SAME SHALL BE USED BY SLDC**

<b>Summary Formats</b>		
1	S1	Profit & Loss Account
2	S2	Balance Sheet
3	S3	Cash flow statement
<b>Financial Formats</b>		
4	F1	Annual Revenue Requirement
5	F2	Alloted Transmission Capacity and Charges to be paid by Long Term
6	F3	Projection of Sales, Connected Load and Demand
7	F4	Revenue at current tariif rates and at proposed tariif rates
8	F5	Details of Transmission Lines and Substations including Investment plan
9	F6	Normative Parameters Considered for Tariff Computations
10	F7	Gross Fixed Assets(GFA) and Depreciation
11	F8	User contributions and grants towards cost of capital assets
12	F9	Details of Loans
13	F10	Details of Equity
14	F11	Interest, IDC & Financing Charges
15	F12	Details of Lease
16	F13	Operations & Maintenance Cost
17	F14	Employee expenses
18	F15	R&M Expenses
19	F16	Administrative & General Expenses
20	F17	Short Term Open access consumers
21	F18	Details of Non-tariff Income
22	F19	Working Capital Interest
23	F20	Details of Income from Other Business
24	F21	Details of Expenses Capitalised
25	F22	Net Prior Period Expenses/Income & Extraordinary Items
26	F23	Contribution to Contingency Reserve, details of grant
27	F24	Allocation Statement of Expenses of SLDC
<b>Performance Formats</b>		
28	P1	Transmission Losses (For Transmission Licensee)
29	P2	Energy Delivered by Transmission licensee to the distribution Distribution
30	P3	Details of Electrical Accidents
31	P4	Abstract of Outages due to feeder tripping
32	P5	Major System Disturbances
33	P6	Frequency Variation
34	P7	Voltage Fluctuation
35	P8	Licensee wise Load shedding carried out during the year
36	P9	Detailss of Overloaded Feeders
37	P10	Details of over loaded Transformers
38	P11	Failure of Transformers
39	P12	Key Ratios

Name of Transmission Licensee

Form No: S1

Statement of Projected Profit and Loss

Rs Crores

Particulars	Current Year (i. e. RE)	Ensuing years (Projection)		
		FY (n+1)	FY (n+2)	FY (n+3)
<b>A Revenue/Income</b>				
1 Revenue from operations				
a)Revenue from Transmission/Wheeling charges -NBPDC	389.35	609.65	769.83	894.14
SBPDCL	495.54	775.92	979.79	1138.00
Others				
2 Non-tariff income	28.08	29.48	30.95	32.50
3 Revenues through subsidies & grants (If any)				
4 Any other Income				
<b>Total Revenue*</b>	<b>912.96</b>	<b>1415.05</b>	<b>1780.58</b>	<b>2064.65</b>
<b>B Expenditure</b>				
1 Repair and Maintenance Cost	159.64	228.61	260.18	309.94
2 Employee costs	142.95	148.79	154.73	160.90
3 Administration expenses	35.87	37.30	38.79	40.34
4 Other Expenses	10.70	11.13	11.57	12.03
5 Extraordinary items (specify items)				
Less: Expenses Capitalized	0.00	0.00	0.00	0.00
<b>C Depreciation and Related debits</b>	<b>230.52</b>	<b>329.44</b>	<b>415.33</b>	<b>510.02</b>
<b>D Interest &amp; Finance Charges</b>	<b>101.85</b>	<b>265.77</b>	<b>427.28</b>	<b>472.91</b>
Less: Interest Capitalized	-75.74	0.00	0.00	0.00
<b>G TOTAL EXPENDITURE (B+C+D)*</b>	<b>605.79</b>	<b>1021.04</b>	<b>1307.88</b>	<b>1506.14</b>
<b>H Profit/Loss (A-G)</b>	<b>307.17</b>	<b>394.01</b>	<b>472.70</b>	<b>558.51</b>

877.98 1372.48 1728.54 2001.36

386.31 603.89 760.56 880.60  
491.67 768.59 967.98 1,120.76

\*

Signature of Petitioner

**Name of Transmission Licensee**

**Projected Balance Sheet**

**Form No: S2**

Rs Crores

Particulars	Current Year (i. e. RE)	Ensuing years (Projection)		
		FY (n+1)	FY (n+2)	FY (n+3)
<b>Assets</b>				
Non-current assets				
~-----				
~-----				
~-----				
Current assets				
~-----				
~-----				
~-----				
<b>Total Assets</b>				
<b>EQUITY AND LIABILITIES</b>				
Equity				
~-----				
~-----				
~-----				
LIABILITIES				
~-----				
~-----				
~-----				
<b>Total Equity and Liabilities</b>				

Regulatory Account for the purpose of calculation of Normative Loan , Equity etc as per prescribed regulation is under progress

Signature of Petitioner

Rs Crores

Particulars		Current Year (i. e. RE)	Ensuing years (Projection)		
			FY (n+1)	FY (n+2)	FY (n+3)
A	<b>Cash flows from operating activities</b>				
	i <b>Net (loss) / Profit</b>				
	<b>Adjustments For</b>				
	ii `-----				
	iii `-----				
	iv `-----				
B	<b>Net Cash flows from operating activities</b>				
	<b>Cash Flow from Investing Activities</b>				
	i `-----				
	ii `-----				
	iii `-----				
C	<b>Net Cash used in Investing Activities</b>				
	<b>Cash Flow from Financing Activities</b>				
	i `-----				
	ii `-----				
	iii `-----				
	<b>Net Cash generated from Financing Activities</b>				
D	<b>Total Cash generated/(lost)</b>				
E	Cash & Cash Equivalants as at beginning of the Financial Year				
F	<b>Cash &amp; Cash Equivalants as at end of the Financial Year</b>				

Regulatory Account for the purpose of calculation of Normative Loan , Equity etc as per prescribed regulation is under progress

Signature of Petitioner



**Name of Transmission Licensee**

e

**Annual Revenue Requirement**

**Form No: F1**

**(Rs. Crores)**

	Particulars	Previous Year		Current Year (i. e. RE)	Ensuing years (Projection)		
		Approved in MYT/RE	Actual		FY (n+1)	FY (n+2)	FY (n+3)
I.	Energy Available (MU)		26681.28	32086.18	35212.90	36813.49	38486.83
II.	Energy Transmitted/Wheeled (MU)		25535.20	30636.17	33699.78	35231.59	36833.02781
III.	Loss %		4.49	4.73	4.49	4.49	4.49
IV.	Transmission Cost per unit (Rs/U)		0.219	0.274	0.390	0.470	0.520
V.	Total Transmission System Capacity (in MW)		18900	21400	22170	25170	27390
VI.	Transmission Cost per MW		0.03	0.04	0.06	0.07	0.07
VII.	Max Demand handled by the transmission system (in MW)		4659	5222	5608	6316	6876
A.	<b>Income from Transmission Function</b>						
1	<b>Receipts</b>						
a	Transmission/Wheeling Charges at current tariff rates	623.58	583.28	877.98	1372.48	1728.54	2001.36
b	Subsidy from Govt. (If any)						
	<b>Total Receipts ( A )</b>	<b>623.58</b>	<b>583.28</b>	<b>877.98</b>	<b>1,372.48</b>	<b>1728.54</b>	<b>2001.36</b>
B	<b>Expenditure</b>						
1	<b>O&amp;M Expenses</b>						
i	Employee Expenses	102.36	140.74	142.95	148.79	154.73	160.90
ii	R&M Expense	48.46	32.69	159.64	228.61	260.18	309.94
iii	A&G Expense	18.45	26.09	35.87	37.30	38.79	40.34
iv.	Share of Holding Company Expenses	5.15	10.29	10.70	11.13	11.57	12.03
	Total O&M expenses ( i+ii+iii+iv)	<b>174.42</b>	<b>209.81</b>	<b>349.16</b>	<b>425.83</b>	<b>465.27</b>	<b>523.21</b>
2	Return on Equity	173.50	181.05	275.99	353.96	418.25	489.12
3	Depreciation	180.31	168.31	230.52	329.44	415.33	510.02
4	Interest and finance charges on Loan Capital	178.24	53.84	101.85	265.77	427.28	472.91
	Less: IDC, if any	-32.94		-75.74	0	0	0
5	Inteest on Working Capital	20.67	22.67	24.28	26.96	33.37	38.60
6	Contribution towards Contingency Reserve	0	0	0	0	0	0
7	Bad Debts	0	0	0	0	0	0
	<b>Total Expenditure ( B )</b>	<b>694.20</b>	<b>635.69</b>	<b>906.06</b>	<b>1401.96</b>	<b>1759.49</b>	<b>2033.86</b>
C	<b>Other Deductions</b>						
1	Income from other Business						
2	Non tariff income	41.09	26.74	28.08	29.48	30.95	32.50
3	Revenue from Short Term transmission charges						
	<b>Total Other Deductions ( C )</b>	<b>41.09</b>	<b>26.74</b>	<b>28.08</b>	<b>29.48</b>	<b>30.95</b>	<b>32.50</b>
D	<b>Net ARR for Transmission Function ( B-C)</b>	<b>653.11</b>	<b>608.95</b>	<b>877.98</b>	<b>1372.48</b>	<b>1728.54</b>	<b>2001.36</b>
E	<b>Shortfall/Excess before tariff revision impact (A-D)</b>		<b>-25.67</b>	<b>-</b>	<b>75.03</b>	<b>0.00</b>	<b>0.00</b>
F	<b>Tariff Revision Impact</b>		<b>49.36</b>				
G	<b>Shortfall/Excess after tariff revision impact (E-F)</b>		<b>(75.03)</b>	<b>-</b>	<b>75.03</b>	<b>0.00</b>	<b>0.00</b>

54.907116 69.221636 85.003644

35.49	38.77	43.6
5.32	5.82	6.54
314.31	452.55	592.97
355.12	497.14	643.11

300.21 427.92 558.11  
9.95% 9.95% 9.95%  
29.87 42.58 55.53

**Note:** The ARR of SLDC shall be filed separately by SLDC. Expenses will be net of Expenditure capitalized.

Signature of Petitioner

## Allotted Transmission Capacity and Charges to be paid by Long Term Transmission Customers

## Long Term Transmission Customers ( CL)

(In MW)

	Particulars	Previous Year		Current Year (i. e. RE)	Ensuing years (Projection)		
		Approved in MYT/RE	Actual		FY (n+1)	FY (n+2)	FY (n+3)
<b>A</b>	<b>Distribution Licensees</b>						
1	North Bihar Power Distribution Company Limited		2132	2443	2684	3014	3253
2	South Bihar Power Distribution Company Limited		2477	2729	2874	3252	3573
3	Others						
	i.						
	ii.						
<b>B</b>	<b>Bulk Consumers/Long Term Open Access Customers (If</b>		50	50	50	50	50
1							
2							
	<b>Transmission Capacity to all the long term Transmission</b>		4659	5222	5608	6316	6876

## Charges to be paid by Long Term Transmission Customers/month

Rs. Crores

A	Distribution Licensees						
1	North Bihar Power Distribution Company Limited	274.38	260.32	386.31	603.89	760.56	880.60
2	South Bihar Power Distribution Company Limited	349.20	322.96	491.67	768.59	967.98	1,120.76
3	Others						
	i. Transmission Charges		51.62				
	ii.						
<b>B</b>	<b>Bulk Consumers/Long Term Open Access Consumers (If any)</b>						
1							
2							
	Total	623.58	634.90	877.98	1372.48	1728.54	2001.36

Name of Transmission Licensee							
Projection of Sales , Connected Load and Demand						Form No:F3	
A)Projection of sales(MU)							
	Particulars	Pervious Year		Current Year (i.e.RE)	Ensuring Years (Projection)		
		Approved in MYT/RE	Actual		Fy (n+1)	FY (n+2)	FY (n+3)
A	Distribution Licenses						
1	North Bihar Power Distribution Company Limited		10785.90631	13282.04823	15300	16445	17188
2	South Bihar Power Distribution Company Limited		14311.29369	16916.12177	17961	18348	19207
3	Others						
B	Bulk Consumers /Long Term Open Access Customers(If any)		438	438	438	438	438
1							
2							
TOTAL			25535.2	30636.17	33700	35232	36833

B) Projection of Connected Load (in KW)							
A	Distribution Licenses						
1	North Bihar Power Distribution		6405836	8130007	9483455	11038067	12756261
2	South Bihar Power Distribution		8333179	9685338	10847870	12139354	13562140
3	Others						
	i.						
	ii.						
B	Bulk Consumers /Long Term Open Access Customers(If any)		50000	50000	50000	50000	50000
1							
2							
TOTAL			14789015	17865345	20381325	23227421	26368401

c) Projection Of Maxmium or Peak Demand (in MW)(Unrestricted)							
s	Distribution Licenses						
1	North Bihar Power Distribution Company Limited		2132	2443	2684	3014	3253
2	South Bihar Power Distribution Company Limited		2477	2729	2874	3252	3573
3	Others						
B	Bulk Consumers /Long Term Open Access Customers(If any)		50	50	50	50	50
1							
2							
TOTAL			4659	5222	5608	6316	6876

33261.78

34793.59 15300.42

25535.2 25097.2 35231.59

30198.17

33261.78 36395.03

**Name of Transmission Licensee**

**Revenue**

**Form No: F4**

**At Current Tariff Rates**

Rs. Crores

	Particulars	Previous Year		Current Year (i. e. RE)	Ensuing years (Projection)		
		Approved in MYT/RE	Actual		FY (n+1)	FY (n+2)	FY (n+3)
<b>A</b>	<b>Distribution Licensees</b>						
1	North Bihar Power Distribution Company Limited		260.32	386.31	603.89	760.56	880.60
2	South Bihar Power Distribution Company Limited		322.96	491.67	768.59	967.98	1120.76
3	Others						
	i.		4.54				
	ii.						
	<b>TOTAL</b>	<b>0.00</b>	<b>587.83</b>	<b>877.98</b>	<b>1372.48</b>	<b>1728.54</b>	<b>2001.36</b>
<b>B</b>	<b>Bulk Consumers/Long Term Open Access Consumers (If any)</b>						
1							
2							
	<b>TOTAL</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
	<b>Grand Total</b>	<b>0.00</b>	<b>587.83</b>	<b>877.98</b>	<b>1372.48</b>	<b>1728.54</b>	<b>2001.36</b>

**At Proposed Tariff Rates**

	Particulars	Ensuing years (Projection)		
		FY (n+1)	FY (n+2)	FY (n+3)
<b>A</b>	<b>Distribution Licensees</b>			
1	North Bihar Power Distribution Company Limited	603.89	760.56	880.60
2	South Bihar Power Distribution Company Limited	768.59	967.98	1120.76
3	Others			
	i.			
	ii.			
	<b>TOTAL</b>	<b>1372.48</b>	<b>1728.54</b>	<b>2001.36</b>
<b>B</b>	<b>Bulk Consumers/Long Term Open Access Consumers (If any)</b>			
1				
2				
	<b>TOTAL</b>		<b>0.00</b>	<b>0.00</b>
	<b>Grand Total</b>	<b>1372.48</b>	<b>1728.54</b>	<b>2001.36</b>
<b>Less</b>	<b>Tariff at Current Rates</b>	<b>1372.48</b>	<b>1728.54</b>	<b>2001.36</b>
	<b>Impact of Tariff Revision</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>



Name of Transmission Licensee  
(a) Details of Transmission Lines and Substations  
Transmission Lines

Project/O&M  
Form No:F5

No	Name of line	Type of Line AC/HVDC	S/C OR D/C	No. Of Sub- conductors	Voltage level KV	Line length Ckt.-Km.	Date of Commercial operation /Put in use
1	Construction of 132 KV D/C Transmission Line between 220/132/33 KV Bihta (New) GSS and 132/33KV Upcoming Paliganj GSS	AC	D/C	Single	132 KV	70	Under construction.
2	Construction of 220 KV Bihta(new) - Sipara(Patna) D/C transmission line ,220 KV Bihta(new)-Bihta(existing) D/c Transmission line (charged at 132 KV ) and 33 Kv down linking lines from Bihta(new) 220/132/33 KV GSS on tunkey basis.	AC	D/C	Single	220 KV	122	Under construction.
3	The construction 132 KV D/C Sonenagar (New)-Aurangabad Transmission line RL-22KM with OPGW under BRGF phase-III scheme (N-I) against NIT No.-59/PR/BSPTCL/2014 Package-B. <b>02 No. of Line</b>	AC	D/C	Single	132KV	22	Under Progress
4	Construction of 132KV D/C Ara GSS-Jagdishpur GSS Trans Line RL-25KM with OPG Earth wire against NIT No.59/PR/BSPTCL /2014-Pkg-C under BRGF Phase -III Part -II (N-1) compliance, on turnkey basis. <b>02 No. of Line</b>	AC	D/C	Single	132KV	25	Under Progress
5	Work of construction of 06 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR Panther Conductor for connectivity of 2nd circuit of 132 KV D/C Ara (PG)-Jagdishpur Transmission line under BRGF Phase -III Part -II (N-1)	AC	D/C	Single	132KV	1	Under Progress

6	<p>Construction of 132kV D/C Karmnasha (New)-Ramgarh Transmission Line with ACSR Single Moose (Line Length-60Ckm)</p> <p>Construction of 132kV D/C Karmnasha (New)-Karmnasha Transmission Line with ACSR Single Moose (Line Length-7Ckm)</p> <p>under state plan[80:20].</p>	AC	D/C	Single	132KV	67Km	In tendering Stage
7	<p><b>Second circuit stringing of existing 04 nos of 132KV Double circuit Single strung transmission line:-</b></p> <p>1) 132KV Biharsharif-Ekangarsarai-Hulasganj(Except LILO point to Ekangarsasari)(48.14 CKM)</p> <p>2)132KV Biharsharif-Nawada(48.89CKM)</p> <p>3)132KV Biharsharif-Sheikhpura(38.78CK M)</p> <p>4)132KV Jamui-sheikhpura(51.9CKM ) under State Plan on Turnkey Basis against NIT No.-74/PR/BSPTCL/2015</p>	AC	S/C	Single	132 KV	187.71	Not completed
8	<p>Construction of 132 KV D/C Bakhtiyarpur (New) to Harnaut (New) Transmissionline (15 RKM) &amp; Construction of 132 KV D/C Bakhtiyarpur (New) to Baripahari Transmission line (38 RKM) under state plan (80:20):-</p> <p>Line1:Construction of 132 KV D/C Bakhtiyarpur (New) to Harnaut (New) Transmissionline (15 RKM)</p> <p>Line2:Construction of 132 KV D/C Bakhtiyarpur (New) to Baripahari Transmission line (38 RKM)</p> <p>NIT No. 78/PR/BSPTCL/2018</p>	AC	D/C	Single	133 KV	106	Awarding under progress

9	<p>Construction of following associated 220KV &amp; 132KV D/C Transmission Lines of 220/132/33KV GSS Asthawan (Dist. Nalanda) on Turnkey Basis:-</p> <p>1. Construction of 220 KV D/C Transmission line from Sheikhopursarai(BGC L) to 220/132/33 KV GSS Asthawan (Line Length- 20 )RKM</p> <p>2. Construction of 220 KV D/C Transmission line from 220/132/33 KV GSS Biharsharif to 220/132/33 KV GSS Asthawan (Line Length - 20 RKM).</p> <p>3. Construction of 132 KV D/C Transmission line</p>	AC	AC	Single	220 KV & 132 KV	220 KV- 80 CKm 132 KV- 220 CKm	Awarding under progress		
10	<p>i) LILO of one ckt. At north of muthani railway station from 132KV D/C Pusouli (New) – Mohania Trans. Line to proposed 3x50 MV Ramgarh GSS (BSPTCL of route length 20Km. ii) LILO of 132KV Line Biharsharif – Nawada D/C Trans. Line – Warsaliganj (New) GSS of Route length 40Kms.iii) LILO of one Ckt. Of 132KV Chhapra – Siwan Transmission Line – Siwan (New) GSS near Darauli of route length 45Kms. Turnkey basis under Under State Plan.</p>	AC	S/C	Patnher	132	<p>I) Line1- 17.44KM II) LINE2- 13.34 KM III)LINE3-23.44 KM</p>	<p>I) Line1- 25.05.2017 II) LINE2- 11.08.2018 III)LINE3- 19.04.2018</p>		
11	<p>Shifting/height raising of 132KV D/C towers including dismantling of existing tower of location no. 78,78A,79,80 (Previous Location No:- 90,91,92&amp;93)of 132 KV D/C transmission line (Sonenagar-Garhwa-Rihand) on turnkey basis under deposit head of BRBCL</p>	AC	D/C	Panther	132	2km	30.12.2018		
12	<p>Relocation/Reroting of 132 KV D/C Transmission Line (Sonenagar- Garhwa- Rihand) NIT No:- 46/PR/BSPTCL/2015</p>	AC	D/C	PANTHER	132	10KM	16.05.2018		

13	1. Construction of 220kV D/c Pusauli (PG)-Sahpuri LILO Karmnasha (new) Transmission line with single moose (Line length-12 Ckm) on turnkey basis.	AC	D/C	Single Moose	220	12	12 Months from NOA ( Work to be awrded)		
14	2. Construction of 220kV D/c Pusauli (BSPTCL)-Karmnasha (New) Transmission Line with twin moose (Line length - 80 Ckm) on turnkey basis.	AC	D/C	Twin Moose	220	40	12 Months from NOA( Work to be awrded)		
15	Costruction of 220KV D/C Amnour (BGCL) -Digha (GIS)	AC	D/C	ACSR Zebra	220	96	18 Months from NOA( Work to be awrded)		
16	Construction of 132 kV lines (approx. 202 km) i)LILO of Darbhanga - Pandalul line at Gangwara. 2) Pusauli (New) - kochas DCSS line 3) Pusauli (New) - mohania DCSS line 4) LILO of sasaram (New) - kudra at pusauli 5) Lakhisarai - Seikhpura DCSS line 6) Bettiah - Dhanha DCSS line  Construction of 33 kV lines (approx. 40 km) i) New line from 132 kV SS Dhanha to Kuchaikot ii) New line from 132 kV SS Gangwara to ahilyastahn	AC	DCSS	Panther	132 & 33	202	i)lilo of darbhanga - pandaul line to GSS Gangwara - 24.11.2015 ii)LILO of sasaram (New) - kudra at pusauli - 15.08.2015 iii) 132KV PUSAULI - MOHANIA LINE - 31.03.2017 iv) Lakhisarai- Seikhpura - 16.01.2018 v)132kv pusauli kochas - March 2018		
17	Construction of 220kV Transmission Lines Dehri - Pusauli (new) DCDS line i) LILO of Double Circuit Sasaram - Ara line at Pusauli (New)	AC	D/C	Panther	220	60	2nd ckt LILO of Sasaram- ArA (pg) TO Pusauli GSS - 15.05.2015		

18	Construction of 132KV S/C Transmission Line for Solar PV Project of M/s Alfa Infraprop Pvt. Ltd. at Bhagaura from 132KV GSS Rafiganj and Construction of 01 no. 132KV line bay at GSS Rafiganj	AC	S/C	Single	132 KV	14.6	TOC issued dated 04.07.17
19	Second Circuit Stringing of Existing 03 Nos. of 132 KV Double Circuit Single Strung Transmission Line: i) GSS Belagunj to tapping point of L-32 & L-33 Trans. Line 2.5 CKM ii) 132 KV Gaya-Tekari and 132 KV Tekari-Goh 51.8 CKM iii) 132 KV Jehanabad-Ataula (Karpi) 22.57 CKM Under Transmission Circle Gaya on Turnkey Basis under State Plan on FIRM prices.	AC	S/C	Single	133 KV	76.87	Under Progress
20	Re-conductoring of 132 KV Chandauti-Sonenagar S/C Trans. Line (L-30) and 132 KV Chandauti-Rafiganj-Sonenagar Trans. Line (L-31) with HTLS conductor (equivalent to Panther) on turnkey basis. (Route length-78.21 KM)	AC	S/C	Single	132 KV	78.21 RKM	FY - 2020-21
21	Construction of 132 KV D/C Transmission Line for LILO of Chandauti-Sonenagar (L-30) 132 KV S/C Transmission Line and Chandauti-Rafiganj-Sonenagar (L-31) 132 KV S/C Transmission Line at GSS Chandauti (New) with HTLS Conductor (equivalent to Panther) conductor on turnkey basis. (Route length -46 KM).	AC	S/C	Single	133 KV	46 RKM	FY - 2020-21

22	Construction of (i) LILO of Barh-Patna 400 KV D/C ( QUAD) Transmission line at Bakhtiyarpur ( New) (10RKM) (ii) Bakhtiyarpur ( New) - Sheikhpura ( New) 220 KV D/C Transmission Line (51 RKM) (iii) Bakhtiyarpur (New) –Hathidah(New) 220 KV D/C Transmission Line (52 RKM) and (iv) Bakhtiyarpur ( New) – Fathua (BSPTCL) 220 KV D/C Transmission Line (28 RKM) under state plan[ 80:20]	AC	D/C	Quad for 400 KV Line	400 KV and 220 KV	141 RKM	FY - 2020-21
23	Construction of 220 KV D/C trans. line for LILO of both circuits of 220 KV D/C Gaya (PG)-Sonenagar (BSPTCL) trans. line at 400/220/132 KV Chandauti (new) GSS of route length 1.5 Km and 220/132/33 KV Bodhgaya (BSPTCL) of route length 19 km	AC	D/C	Double	220 KV	20.5 RKM	FY - 2020-21
24	Construction of 132 KV LILO line of both circuit of 132 KV BTPS-Purnea transmission line to new GSS near Korha (Katihar) ( route length- 20 KM ).	AC	D/C	single	132KV	RL=20KM	work is under progress
25	Construction of 132 KV LILO line on one line of 132 KV Sabour-Sultanganj transmission line to new GSS near Nathnagar (Bhagalpur)(route length-10 KM).	AC	D/C	single	132KV	RL=10KM	work is under progress
26	Construction of 132 KV D/C transmission line from Jamui (BSPTCL)- Jamui (new GSS) (route length- 30 KM ).	AC	D/C	single	132KV	RL= 30KM	21.06.2018
27	Construction of of 132 KV D/C transmission line from Banka (new) to Jamui (new) GSS(Route length= 35 KM)	AC	D/C	single	132KV	RL= 35KM	09.08.2018(ckt.1) & 15.09.2018(ckt-2)

28	Construction of LILO on both circuits of 220KV D/C Begusarai-Purnea (PG) Transmission Line at 220/132/33KV Khagaria (new) GSS against NIT No. 12/PR/BSPTCL/2016 Package A.	AC	D/C	single	220kv	CKM - 28 KM	work is in progress
29	construction of L.ILO line on both circuits of 132 KV BTPS-Purnea D/C Transmission line at Khagariya new 220/132/33 KV GSS (CKM-10 KM) against NIT 12/PR/BSPTCL/2016 Pkg-B under state plan.	AC	D/C	single	220kv	CKM-10 KM	work is in progress
30	construction of 132 KV D/C transmission line from Banka(BSPTCL)-Banka(new) against NIT 18/PR/BSPTCL/2016	AC	D/C	single	132KV	RKM=30KM	ckt. 1=21.11.2017 ckt.2=22.11.2017
31	Construction of 220 KV D/C Saharsa( New)- Khagaria(New) Transmission line with ACSR Zebra Conductor (Approx Route Length- 80KM) on turnkey basis under State Plan.	AC	D/C	single	220kv	RKM=80KM	Work is yet to be awarded.Itemwise details will be provided after award of work.
32	Construction of 132 KV Transmission line (2-phase) from Jamalpur (BSPTCL) to Jamalpur (TSS) of route length 5.0 KM (4.0 Km through overhead and 01 Km through Underground XLPE cable) and 01 no. associated 132 KV Line bay at Jamalpur invited vide N.I.T No-47/PR/BSPTCL/2018.	AC	S/C	single	132KV	RKM=5KM	Work is yet to be awarded.Itemwise details will be provided after award of work.



33	<p>Re-conductoring of following transmission lines with HTLS(equivalent to Panther) conductor on turnkey basis invited vide Tender No.113/PR/BSPTCL/2018 :- 1. 132 KV S/C Kahalgaon (BSPTCL)-Kahalgaon (NTPC) Trans Line.(CKM-7KM) 2. 132 KV S/C Kahalgaon-Sabour Trans Line (CKM-27KM)</p>	AC	S/C	single	132KV	CKM=34KM	Work is yet to be awarded.Itemwise details will be provided after award of work.
34	<p>Construction of 220 KV D/C Transmission line from BTPS (Extension Project) to 220/132KV GSS Hajipur against NIT No 95/PR/BSPTCL/2014 under BRGF phase III part I</p>	AC	D/C	Single	220	107	07.08.2018
35	<p>Construction of 220 KV D/c transmission line from 220/132/33 KV GSS Chapra (New), Amnour to 400/220 KV GSS Muzaffarpur (PG) with Zebra conductor against NIT No 51/PR/BSPTCL/2018 under state plan</p>	AC	D/C	Single	220	65	Tender under progress
36	<p>132 KV D/c transmission line from 220/132/33 KV GSS Chapra (New), Amnour to 132/33 KV GSS Vaishali with Panther conductor against NIT No 51/PR/BSPTCL/2018 under state plan</p>	AC	D/C	Single	132	40	Tender under progress

37	Construction of LILO of one Ckt of 132 KV D/C Kishanganj (Old)-Forbisganj Transmission line at Palasi GSS with ACSR Panther Conductor against NIT No 69/PR/BSPTCL/2018 under state plan	AC	D/C	Single	132	20	Tender under progress
38	Construction of Loop In Loop Out arrangement of 132 KV Transmission line Madhepura-Sonebarsa 132 KV S/C Transmission line on D/C Tower at Saharsa Existing (CKM-40 KM) under Special Plan of Phase-III against NIT No. 38/PR/BSPTCL/2014.	AC	S/C	Single	132KV	40	Work under progress
39	Construction of 220 KV D/C Saharsa(New)-Begusarai Transmission line with ACSR Zebra Conductor (Approx Route Length-100KM)on turnkey basis against NIT 54/PR/BSPTCL/2018	AC	D/C	Single	220KV	200KM	Tender under progress

40	Construction of 132 KV D/c transmission line from Laukahi – Phulparas with HTLS Conductor (Line length approx. 25KM) on turnkey basis against NIT 111/PR/BSPTCL/2018.	AC	D/C	Single	132KV	50KM	Tender under progress
41	Second circuit stringing of 220 KV DCSS Darbhanga (400/220 KV) – Samastipur (New) Transmission Line (Line Length- 48 KM) with ACSR Zebra Conductor on turnkey basis against NIT No.72/PR/BSPTCL/2018	Type of Line AC/HVDC	D/C	1	220	48	Under Progress
42	132KV DCSS Transmission Line from GSS Samastipur (New) to Shahpur Patori against NIT No.81/PR/BSPTCL/2014	AC	S/C	Single	132KV	31KM	02.05.2018
43	132KV S/C Kuseshwarsthan to Benipur against NIT No.81/PR/BSPTCL/2014	AC	S/C	Single	132KV	35.55Km	–

44	Construction of 132 kV D/C Transmission Line with ACSR Panther conductor between 132/33 kV Darbhanga Grid Substation and 132/33 kV Chandanpatti (Gangwara) Grid Substation (RL-10KM) against NIT No.- 18/PR/BSPTCL/2015	AC	D/C	Single	132KV	10KM	-
45	Construction of 220 KV D/C Transmission Line from 220/132/33 KV GSS Raxaul (New) to 220/132/33 KV GSS Gopalganj with Twin ACSR Moose Conductor (Approx Line Length 80RKM) against NIT No: 62 /PR/BSPTCL/2018	AC	D/C	Twin	132Kv	80RKM	Tender under progress
46	Construction of (i) 220 KV D/C Transmission Line from GSS Sitamarhi (New) to 220/132/33 KV GSS Motipur with Twin ACSR Moose Conductor (Approx Line Length -54 RKM) (ii) 132 KV D/C Transmission line from GSS Sitamarhi (New) to 132/33 KV GSS Runnisaidpur with Single ACSR Moose	AC	D/C	Sitamarhi (New) to 220/132/33 KV GSS Motipur-Twin and GSS Sitamarhi (New) to 132/33 KV GSS Runnisaidpur-single	132KV	Sitamarhi (New) to 220/132/33 KV GSS Motipur-54RKM and GSS Sitamarhi (New) to 132/33 KV GSS Runnisaidpur-17RKM	Tender under progress

47	<p>second circuit stringing of:  i) 132KV Pandaul - Madhubani Transmission line.  ii) 132KV Madhubani - Jainagar Transmission line.  iii) 132KV Jainagar - Phulparas Transmission line.  iv) 132KV 2nd Circuit stringing from tapping point &amp; LILO of Chhapra – Siawan Line to</p>	AC	D/C	Single	132KV	i) 132KV Pandaul - Madhubani Transmission line-14.5CKM ii) 132KV Madhubani - Jainagar Transmission line-33CKM iii) 132KV Jainagar - Phulparas Transmission line-50CKM iv) 132KV 2nd Circuit stringing from tapping point & LILO of Chhapra – Siawan Line to Ekma GSS-	22.09.2018
48	<p>Construction of 132 kV S/C Transmission Line on D/C Tower with ACSR Panther conductor between 132/33 kV Rosera Grid Sub-station and Hasanpur Sugar Mill(RL- 19.50KM) NIT No.- 15/PR/BSPTCL/ 2017</p>	AC	s/c	Single	132kv	19.50km	-
49	<p>Construction of 132 KV D/C Transmission line by making LILO arrangement of 132 KV DCSS Benipatti- Pupri Transmission line at Sitamarhi (New) GSS with ACSR Panther Conductor (Line Length-31 RKM)</p>	AC	D/C	1	132	31	Order to be placed

50	Construction of LILO of Both circuit of Bettiah-Raxaul 132 KV DC Transmission line at Raxaul (New) GSS with ACSR Panther conductor (Line Length-10 RKM)	AC	D/C	1	132	10	Order to be placed
51	Construction of 220 KV & 132 KV D/C Transmission line for evacuation of power from upcoming Motipur GSS	AC	D/C	Single	220, 132 KV	442.498	Charged on-21.11.2017
52	Construction of 220 KV & 132 KV D/C Transmission line for evacuation of power from upcoming Musahari GSS	AC	D/C	Single	220, 132 KV	207	Charged on-15.04.2017
53	Construction of 220 KV D/C Sitamarhi (New)-Raxaul(New) Transmission Line with twin moose Conductor (Line Length - 120 RKM) on turnkey basis against NIT No.-60/PR/BSPTCL/2018.	AC	D/C	Twin	220 KV	240	Yet to be awarded

54	(i) Construction of 220 KV D/C Transmission Line from 220/132/33 KV Samastipur (New) to proposed 220/132/33 KV GSS Tajpur (Line Length -30 KM).  (ii) Construction of 132KV D/C Shahpurpatori - Tajpur Transmission line with ACSR Panther Conductor (Line Length-40 KM).  &	AC	D/C		220 KV	230	Yet to be awarded
55	Construction of (i) 220KV D/C Line from Darbhanga 400/200 KV GSS to to Laukahi (new)GSS (ii) 220KV D/C Line from Laukahi(new) GSS to Supaul (existing) Pkg-'D' GSS	AC	D/C	Single	220 KV		Yet to be charged
56	132 KV S/C Purnea – SaharsaLilo at Banmankhi	AC	S/C	Single	132 KV	4	25.01.2017
57	LILo of 132 KV Purnea - Forbesganj line at Rajwara(Chahata pur) for 132/33 KV Triveniganj GSS	AC	S/C	Single	134 KV	30	02-02-2017
58	132 KV S/C Bikramganj – Piro TL against NIT No. 35/PR/BSPTCL/2015	AC	S/C	Single	132 KV	23	29.05.2017
59	132 KV D/C Phulparas – sapoul Lilo at Nirmali TL	AC	D/C	Single	132 KV	60	25.12.2016



60	132 KV D/C Begusarai – BakhariLilo at Manjhau TLNIT No. 35/PR/BSPTCL/ 2015	AC	D/C	Single	132 KV	4	18.05.2017
61	132 KV D/C Begusarai – BakhariLilo at Ballia NIT No. 35/PR/BSPTCL/ 2015	AC	D/C	Single	132 KV	15	04.05.2017
62	132 KV S/C Purnea – KatiharLilo at Manihari NIT No. 35/PR/BSPTCL/ 2015	AC	S/C	Single	132 KV	23	19.11.2017
63	132KV D/C Begusarai - Bakhari Line against NIT No. 35/PR/BSPTCL/ 2015	AC	D/C	Single	132 KV	80	16.11.2017
64	Second circuit stringing of 132 KV Madhepura- Sonebarsa tr. Line (50.5 CKM) against NIT No. 76PR/BSPTCL/2 015	AC	S/C	Single	132 KV	50.5	20.10.2017
65	Second circuit stringing of 132 KV DCSS Saharsa- Udakishanganj(5 0.5 CKM) against NIT No. 76PR/BSPTCL/2 015	AC	S/C	Single	132 KV	50.5	16.11.2017
66	Second circuit stringing of 132 KV Begusarai- Kuseshwarthan (67.27 CKM) against NIT No. 76PR/BSPTCL/2 015	AC	S/C	Single	132 KV	67.27	13.10.18

67	132 KV D/C Thakurganj-Araria Transmission Line with ACSR Panther Conductor (Line Length - 86 RKM) against NIT No 52/PR/BSPTCL/2018	AC	D/C	Single	132 KV	172	Tender under Process
68	220 KV D/C Kishanganj (New)-Thakurganj Transmission Line with ACSR Zebra Conductor (Line Length - 52 RKM) against NIT No 52/PR/BSPTCL/2018	AC	D/C	Single	220 Kv	104	Tender under Process
69	Construction 220 KV D/C Line by making LILO arrangement of both circuits of 220 KV D/C Purnea(PG)-Begusarai Transmission line(14RKM) to 220/132/33 KV Korha GSS against NIT No. 70/PR/BSPTCL/2018	AC	D/C	Single	220 Kv	28	Tender under Process
70	132 KV D/C T/L from Motihari (400 KV) to Motihari (BSPTCL) against NIT No 403/PR/BSPTCL/2013 Pkg A	AC	D/C	Single	132 KV	30 Ckm	20.05.2017
71	132 KV D/C T/L from Motihari (400 KV) to Bettiah against NIT No 403/PR/BSPTCL/2013 Pkg B	AC	D/C	Single	132 KV	80 Ckm	30.06.2017

72	132 KV D/C T/L from Motihari (400 KV) to Raxaul against NIT No 403/PR/BSPTCL/2013 Pkg C	AC	D/C	Single	132 KV	115 Ckm	31.10.2017
73	132 KV S/C transmission lines on D/C Tower from 132/33 KV Dhaka GSS to upcoming Pakridayal GSS against NIT No 82/PR/BSPTCL/2014	AC	S/C	Single	132 KV	45 Ckm	24.02.2018
74	132 KV S/C Transmission line on D/C Tower from 220/132 KV Motipur GSS to upcoming Chakiya GSS NIT No 82/PR/BSPTCL/2014	AC	S/C	Single	132 KV	40 Ckm	
75	LILO of 132 KV S/C of Jainagar-Phulparas Transmission Line at upcoming Jhanjharpur GSS NIT No 82/PR/BSPTCL/2014	AC	S/C	Single	132 KV	70 Ckm	
76	Construction of Four nos of 132 KV single circuit transmission line (2-Phase strung) from GSS Motipur to TSS Mahawal, GSS Motihari to TSS Jivdhara, GSS, Bettiah to TSS Majhaulia and GSS Ramnagar to TSS Harinagar on D/C Tower against NIT No 33/PR/BSPTCL/2017	AC	S/C	Single	132 KV	17 Ckm	Tender under Process

77	220 KV D/C Muzaffarpur(PG)- Garaul Transmission Line with ACSR Zebra Conductor (Line Length-20 RKM) against NIT No 50/PR/BSPTCL/ 2018	AC	D/C	Single	220 KV	40 Ckm	Tender under Process
78	132 KV D/C Garaul- Mahnar Transmis sion Line with ACSR Panther Conductor (Line Length- 45 RKM) NIT No 50/PR/BSPTCL/ 2018	AC	D/C	Single	132 KV	90 Ckm	Tender under Process
79	LILO of both circuit of 132 KV D/C Muzaffarpur- vaishali Transmission Line at Garaul GSS with ACSR Panther Conductor (Line Length- 2x15 RKM) NIT No 50/PR/BSPTCL/ 2018	AC	D/C	Single	132 KV	60 Ckm	Tender under Process
80	132 KV D/C Transmission line from GSS Chhapra(New)- Ekma with ACSR Panther Conductor (Line Length - 45 RKM) NIT No 50/PR/BSPTCL/ 2018	AC	D/C	Single	132 KV	90 Ckm	Tender under Process

81	Reconductoring 132 KV Muzaffarpur- SKMCH S/C Transmission Line with HTLS Conductor (Line Length- 20.5 RKM) along with involvement of 1 no of Pile Foundation NIT No 114/PR/BSPTCL /2018	AC	S/C	Single	132 KV	20.5 Ckm	Tender under Process
82	Reconductoring of 132 KV Kanti (MTPS)- SKMCH D/C Transmission Line with HTLS Conductor (Line Length- 14.2 RKM) NIT No 114/PR/BSPTCL /2018	AC	D/C	Single	132 KV	28 Ckm	Tender under Process
83	132KV D/C Kusheshwarsthan- Sonebarsa T/L	AC	D/C	Single	132 KV	75 RKm	08.01.2018
84	220 KV Kishanganj New- Madhepura D/C Tx. Line	AC	D/C	Single	220 KV	142 RKm	10.08.2018
85	200 KV (D/C) Line between Madhepura to Laukhi with AL- 59 Conductor	AC	D/C	Single	220 KV	62 RKm	07.06.2018
86	220 KV Purnea (PG) – Begusarai D/C Tx. Line	AC	D/C	Single	220 KV	180 RKm	09.08.2018
87	132 KV LILO T/I on one of the CKT of 132 KV Betia--Dhanha to Ramanagar GSS	AC	D/C	Single	132 KV	54.28 RKm	Work under Progress

88	Construction of LILO of one circuit of 132KV Laukahi-Supaul Transmission Line at 132/33 KV GSS Raghapur	AC	D/C	Single	132 KV	20 Rkm	Work under Progress
89	132 KV D/C T/L from Motihari (400 KV) to Motihari (BSPTCL) against NIT No 403/PR/BSPTCL/2013 Pkg A	AC	D/C	Single	132 KV	30 Ckm	20.05.2017
90	132 KV D/C T/L from Motihari (400 KV) to Bettiah against NIT No 403/PR/BSPTCL/2013 Pkg B	AC	D/C	Single	132 KV	80 Ckm	30.06.2017
91	132 KV D/C T/L from Motihari (400 KV) to Raxaul against NIT No 403/PR/BSPTCL/2013 Pkg C	AC	D/C	Single	132 KV	115 Ckm	31.10.2017
92	132 KV S/C transmission lines on D/C Tower from 132/33 KV Dhaka GSS to upcoming Pakridayal GSS against NIT No 82/PR/BSPTCL/2014	AC	S/C	Single	132 KV	45 Ckm	
93	132 KV S/C Transmission line on D/C Tower from 220/132 KV Motipur GSS to upcoming Chakiya GSS NIT No 82/PR/BSPTCL/2014	AC	S/C	Single	132 KV	40 Ckm	24.02.2018

94	LILO of 132 KV S/C of Jainagar-Phulparas Transmission Line at upcoming Jhanjharpur GSS NIT No 82/PR/BSPTCL/2014	AC	S/C	Single	132 KV	70 Ckm	
95	Construction of Four nos of 132 KV single circuit transmission line (2-Phase strung) from GSS Motipur to TSS Mahawal, GSS Motihari to TSS Jivdhara, GSS, Bettiah to TSS Majhulia and GSS Ramnagar to TSS Harinagar on D/C Tower against NIT No 33/PR/BSPTCL/2017	AC	S/C	Single	132 KV	17 Ckm	Tender under Process
96	220 KV D/C Muzaffarpur(PG)-Garaul Transmission Line with ACSR Zebra Conductor (Line Length-20 RKM) against NIT No 50/PR/BSPTCL/2018	AC	D/C	Single	220 KV	40 Ckm	Tender under Process
97	132 KV D/C Garaul-Mahnar Transmission Line with ACSR Panther Conductor (Line Length- 45 RKM) NIT No 50/PR/BSPTCL/2018	AC	D/C	Single	132 KV	90 Ckm	Tender under Process

98	LILO of both circuit of 132 KV D/C Muzaffarpur-vaishali Transmission Line at Garaul GSS with ACSR Panther Conductor (Line Length- 2x15 RKM) NIT No 50/PR/BSPTCL/2018	AC	D/C	Single	132 KV	60 Ckm	Tender under Process
99	132 KV D/C Transmission line from GSS Chhapra(New)-Ekma with ACSR Panther Conductor (Line Length - 45 RKM) NIT No 50/PR/BSPTCL/2018	AC	D/C	Single	132 KV	90 Ckm	Tender under Process
100	Reconductoring 132 KV Muzaffarpur-SKMCH S/C Transmission Line with HTLS Conductor (Line Length- 20.5 RKM) along with involvement of 1 no of Pile Foundation NIT No 114/PR/BSPTCL/2018	AC	S/C	Single	132 KV	20.5 Ckm	Tender under Process
101	Reconductoring of 132 KV Kanti (MTPS)-SKMCH D/C Transmission Line with HTLS Conductor (Line Length- 14.2 RKM) NIT No 114/PR/BSPTCL/2018	AC	D/C	Single	132 KV	28 Ckm	Tender under Process



	Construction of (i)LILO arrangement of 132 KV DCSS Saharsa(OLD)-Banmankhi Transmission Line at Saharsa (New) GSS,(ii)LILO arrangement of 132 KV DCSS Saharsa(OLD)-Udakishanganj Transmission Line at Saharsa (New) GSS, (iii)LILO arrangement of one circuit of Madhepura-Sonebarsa 132KV D/C	AC	D/C	Single	132KV	70Rkm		Under Tendering Process	
102									
No	Name of Sub-station	Type of Substation Convention		Voltage level kv	No. Of transformers/ Reactors/ SVC etc (with capacity)	No. Of Bays		Date of commercial operation /Putin use	Covered in this petition (Yes/No)
1	Construction of (2x50) MVA, 132/33 KV GSS Paliganj (Dist.- Patna) and 02 Nos. 132 KV Line Bay Extension at remote end on turnkey basis	AIS		132/33 KV	02 Nos. 50 MVA	05 nos. 132 KV & 09 nos. 33 KV		Under construction.	
2	Construction of (2X160 MVA+2X50 MVA),220/132/33 KV GSS at Bihta(Patna) & associated 220,132 & 33 kv bays extension at remote end on turnkey basis	AIS		220/132/33 KV	02 Nos. 160 MVA and 02 Nos. 50 MVA	06 nos. 220 KV, 07 nos. 132 KV & 09 nos. 33 KV		Under construction.	
3	Construction of (2x20) MVA, 132/33KV GSS, PIRO (Dist: Bhojpuj) NIT No.- 61/PR/BSPTCL/2014	AIS		132/33KV	2x20MVA	05Nos. Of 132KV bays 07Nos. Of 33KV bays		23.09.2018	

4	Construction of associated 06 Nos. 132KV Line Bays (03nos. at GSS Biharsharif, 2 nos. at GSS Sheikhpura and 01 no. at GSS Jamui) for 2nd circuit stringing of existing 132 KV Double Circuit Single Strung Transmission Line under Biharsharif Circle under State Plan on Turnkey Basis against NIT No.- 02/PR/BSPTCL/2016 Single package NIT No. 02/PR/BSPTCL/2016/ State Plan	AIS Bays		132 KV		6		Associate d line has not been complete d.
5	Construction of 03 (three) Nos. 132/33 KV Transformer Bays at GSS Rajgir, Ekangarsarai and Sheikhpura under Special Plan (BRGF) Scheme of Phase-III, Part-II, (N-1) Compliance for strengthening of Sub-Transmission System in Bihar on Turnkey Basis against NIT No. 06/PR/BSPTCL/2014 . Single package NIT No. 06/PR/BSPTCL/2014/ Special Plan (BRGF) Scheme of Phase-III, Part-II, (N-1) Compliance	Tr. Bays		132/33 KV		3		
6	Construction of 220/132/33 KV, (2x160 + 3x50) MVA, GSS Asthawan (Dist.- Nalanda) including Residential Quarters with Construction of 02 Nos. 220 KV Line Bays & 06 Nos. 132 KV Line Bays at remote end on Turnkey Basis. NIT No.- 41/PR/BSPTCL/2018	AIS		220/132/33 KV	5	33		Awarding under progress.
7	Construction of line bays at various Grid substations on Turnkey Basis under state plan: i. 02 Nos. 132KV line bays at GSS Harnaut, ii. 02 Nos. 132KV line bays at GSS Baripahari NIT No. 133/PR/BSPTCL/2018	AIS Bays		132 KV		4		Awarding under progress.

8	Construction of 02 nos. 220 KV GIS Line Bays at Sheikhpura GSS (BGCL), Hathidah GSS (BGCL) and Fathua GSS (BSPTCL) ( Total 6 nos. GIS line bays) on turnkey basis under state plan .	GIS Bays		220 KV	6			Awarding under progress.	
9	3X50 MVA,132/33 KV GSS Kerpa	132/33		132	3	9		11.02.2019	
10	Construction of 2x50 MVA , 132/33KV GSS Bhabhua	132/33		132	2	5		27.06.2017	
11	Construction of 220/132/33 KV (2x200 MVA + 3x50MVA) GSS Karmnasha (new)]	220/132/33		220/132/33	2X200 & 3X50 mva	220kv-13 132kv - 12		18 Months from NOA( Work to be awrded)	
12	Construction of 3x50MVA, 132/33KV GSS Ramgarh (Kaimur dist.) and Warislaiganj (Nawada Dist.) on turnkey basis under	AIS		Ramgarh:- 132/33 KV Warislaiganj:- 132/33 KV	Ramgarh:- 03 Trf. Warislaiganj:- 03 Trf.	Ramgarh:- 132 KV(08) & 33 KV (13) Warislaiganj:- 132 KV(08) & 33 KV (09)		U/P	
13	Constructio of 02 nos. line bays at GSS Nawadah for evacuation of 10 MW and 03 MW Solar power from Solar plant by Solar developers	AIS		Nawadah GSS- 132/33 kv	NA	Nawadah: 02 nos. 33 KV bays		28.02.2017 & 30.03.2017	
14	construction of 3x50 MVA, 132/33 KV GSS Banka(new) and Jamui(new) against NIT.86/PR/BSPTCL/2015.	AIS		132/33 KV	03 nos. each at Banka & Jamui(GSS)	21 nos.		01no. Tr. Charged at GSS Jamui(new) on 07.11.2018	
15	construction of (2x160+2x50) MVA, 220/132/33 KV Grid Sub-Station, Khagaria (New) against NIT No-41/PR/BSPTCL/2015.			220/132/33 KV	04 nos.	26 nos.			
16	Construction of 132/33KV GSS Areraj against NIT No 93/PR/BSPTCL/2014 under state paln	AIS		132/33 KV	2x20MVA	132KV-05 33KV-07		18.05.2017	
17	Construction of 132/33KV GSS Hathua against NIT No 93/PR/BSPTCL/2014 under state paln	AIS		132/33 KV	2x20MVA	132KV-05 33KV-07		20.05.2017	

18	Construction of 132/33KV GSS Narkatiyaganj against NIT No 93/PR/BSPTCL/2014 under state paln	AIS		132/33 KV	2x20MVA	132KV-05 33KV-07		01.06.2 017	
19	Construction of 132/33KV GSS Maharajganj against NIT No 93/PR/BSPTCL/2014 under state paln	AIS		132/33 KV	2x20MVA	132KV-05 33KV-07		24.05.2 017	
20	Construction of 132/33KV GSS Chakiya against NIT No 62/PR/BSPTCL/2014, A under state paln	AIS		132/33 KV	2x20MVA	132KV-05 33KV-07		29.11.2 017	
21	Construction of 132/33KV GSS Jhanjharpur against NIT No 62/PR/BSPTCL/2014, A under state paln	AIS		132/33 KV	2x10MVA	132KV-05 33KV-07		24.07.2 018	
22	Construction of 132/33KV GSS Pakridayal against NIT No 62/PR/BSPTCL/2014, A under state paln	AIS		132/33 KV	2x20MVA	132KV-05 33KV-07		Yet to be charged	
23	Construction of 132/33KV GSS Siwan New against NIT No 85/PR/BSPTCL/2015 under state paln	AIS		132/33 KV	3x50MVA	132KV-06 33KV-13		30.04.2 018	
24	Augmentation of existing 132/33 KV GSS Ekma (1x20MVA + 1x50MVA) by 3x50MVA capacity against NIT 36/PR/BSPTCL/2018	AIS		132/33 KV	3x50MVA	132KV-05 33KV-08		Tender under progress	

25	Capacity augmentation of GSS Hajipur by replacement of power transformer against NIT 46/PR/BSPTCL/2018 under state paln	AIS		220/132 KV	3x200MVA	220KV-03 132KV-03		Tender under progress	
26	Capacity augmentation of GSS Gopalganj by replacement of power transformer against NIT 46/PR/BSPTCL/2018	AIS		220/132 KV	3x200MVA	220KV-03 132KV-03		Tender under progress	
27	Capacity augmentation of GSS Darbhanga by replacement of power transformer against NIT 46/PR/BSPTCL/2018 under state paln	AIS		220/132 KV	2x200MVA	220KV-02 132KV-02		Tender under progress	
28	Construction of 02 Nos. 132KV line bays at GSS Muzaffarpur against NIT 65/PR/BSPTCL/2018 under state paln.	AIS		132 KV	0	132KV-02		Tender under progress	
29	Construction of 02 Nos. 132KV line bays at GSS Vaishali against NIT 65/PR/BSPTCL/2018 under state paln.	AIS		132 KV	0	132KV-02		Tender under progress	
30	Construction of 02 Nos. 132KV line bay at GSS Runnisaipur against NIT 76/PR/BSPTCL/2018 under state paln	AIS		132 KV	0	132KV-02		Tender under progress	

31	Construction of 02 Nos. 220KV line bays at GSS Motipur against NIT 76/PR/BSPTCL/2018 under state paln	AIS		220 KV	0	220KV-02		Tender under progress	
32	Construction of 132/33 KV, 2 x20MVA Nirmali, 2 x 20 MVA, 2 x 20 MVA Banmankhi, 2 x 20 MVA Manihari and 2 x 10 MVA Triveniganj against NIT 63/2014(Package B)	AIS		132/33kv	8 (20MVA & 10MVA)	132KV Bays:- 20Nos. 33KV Bays:- 28 Nos.		GSS Nirmali :- 28.12.2016, GSS Bnaman khi:- 25th Jan 2017, GSS Mnaihari : 07.12.2017, GSS Triveniganj:- 14.04.2017	
33	Construction of 2 x20MVA , 132/33KV GSS Tarapur, Teghra and Simri Bakhtiyarpur against NIT 91/2014.	AIS		132/33kv	6(20MVA)	132KV Bays:- 15Nos. 33KV Bays:- 21Nos.		GSS Tarapur :- 27.01.2017, GSS Teghra:- 31.10.2018, Simri Bakhtiyarpur:- 02.03.2017.	
34	Construction of 2 x50MVA , 132/33KV GSS Araria, Barsoi, Baisi and Dhamdaha AGAINST NIT 92/2014.	AIS		132/33kv	8(50MVA)	132KV Bays:- 20Nos. 33KV Bays:- 29Nos.		GSS Araria:- 18.10.2017 , GSS Barsoi:- 16.01.2018, GSS Baisi:- 02.05.2018, GSS Dhamdaha:- 10.10.2018	

35	Construction of 3x50MVA , 132/33KV GSS Raghapur against NIT 30/PR/BSPTCL/2018	AIS		132/33kv	3(50MVA)	132KV Bays:- 6Nos. 33KV Bays:- 11Nos.		Work under progress SDOC-04.01.2019	
36	Construction of 05 nos. of 132 KV Line Bays in Grid Sub Station of Transmission Circle Purnea on Turnkey Basis against NIT No. 05/PR/BSPTCL/2016	AIS		132KV		132KV Bays:- 05 Nos.		GSS Udaikisanganj-09.02.2018 GSS Sonbersa-09.10.2017 GSS Begusarai-30.08.2017 GSS Saharsa-09.02.2018 GSS Madhepura-20.08.2	
37	Bay extension works at Kuseshwarsthan, Udakishanganj, Sonebarsa and Kataiya against NIT No. 05/PR/BSPTCL/2014.	AIS		132KV		132KV Bays:- 10Nos.		132KV BAY at GSS Kuseshwarsthan, Udakishanganj, Sonebarsa :- charged in the year 2016. GSS Kataiya:- Likely to be charged upto 31.12.2018.	

38	Construction of 02 nos. 132KV Line bays each at 132/33KV Grid-Substation Mahnar & Shahpurpatori and Construction of 02nos. 220KV Line bays at 220/132/33KV GSS Samastipur(New) on Turnkey basis under State Plan against NIT No. 85/PR/BSPTCL/2018.	AIS		220KV & 132KV		220KV- 02Nos. 132KV- 04Nos.		Tender under Progress	
39	Construction of (2x200 MVA+ 3x50 MVA) 220/132/33 KV GSS, Raxaul (District-East Champaran) complete with SAS and Residential Quarters under State Plan on turnkey basis against NIT No.40/PR/BSPTCL/2018	220/132/33 KV		220 KV	(2x200 MVA+ 3x50 MVA)	220 KV BAYS :- 12 132 KV BAYS :- 15 33 KV BAYS :- 18		Under Progress	
40	Construction of (2x500+2x160) MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis. NIT No. 73/PR/BSPTCL/2018.	400/220/132 KV		400 KV	(2x500 MVA+2x160MVA)	400 KV BAYS :- 12 220 KV BAYS :- 11 132 KV BAYS :- 7 33 KV BAYS :- 6		Under Progress	
41	132 KV Line Bays at GSS Sitamadhi (02 nos. ). Against NIT No. 07/PR/BSPTCL/2015	AIS		132KV		2		01 no. bay commissioned on 11.04.2017	



42	Construction of 132/33KV GSS Benipur (2x10 MVA) against NIT 62/PR/BSPTCL/2014 Package B	AIS		132/33KV	2 No. 10MVA	5			
43	Construction of 132/33 KV Grid Sub-station Shahpur Patori (2X20MVA) against NIT 62/PR/BSPTCL/2014 Package B	AIS		132/33KV	2 NO. 20MVA	5			
44	2 x160+2x50 MVA,220/132/33KV GSS Samastipur(New) NIT No.- 482/PR/BSPTCL/2013	AIS		220/132/33KV	2 No. 160mVA & 2 NO. 50MVA	9		30.07.2018	
45	Construction of 02 nos. 132KV line bays at 132/33KV Grid Sub-station Masrak against NIT 20/PR/BSPTCL/2016	AIS		132KV		2		02.12.17	
46	Construction of 08 nos. 132 KV Line bays under Trans. Circle, Muzaffarpur for 2nd ckt. stringing of existing 132KV DCSS trans. Line at Madhubani-2, Kureshwarstan, Pandaul, Jainagar-2, Ekma & Phulparas against NIT 04/PR/BSPTCL/2016	AIS		132KV		Madhubani-2, Kureshwarstan-2, Pandaul-2, Jainagar-2, Ekma-1 & Phulparas-1		Jainagar -02 no.- charged on 14.10.17, Pandaul-01 no. - charged on 15.10.17, Madhubani -02 no.- charged on 01.11.17, Ekma-01 no. charged on	

47	Construction of (2x50 MVA) 132/33 KV GSS, Palasi (District-Araria) including Residential Quarters on Turnkey Basis under State plan [80:20]	AIS		132/33	Two Transformer(2x 50MVA)	1. 132 KV Bays-07(seven) 2. 33KB Bays-09(Nine)		Order to be placed	
48									
49	Construction of 2 x160+3x50 MVA GSS Musahari(New)	AIS		220KV	(2x160 +3x50) MVA	33		17.01.2017	
50	Construction of 2 x160+2x50 MVA ,220/132/33KV GSS Laukahi	AIS		220KV	(2x160 +2x50) MVA	22		20.06.2018	
51	Construction of (2x160MVA+3x 50MVA) 220/132/33 KV GSS, Tajpur(with SAS)(District-Samastipur) and Residential Quarters (Additional scope) under State Plan on turnkey basis against NIT No.-34/PR/BSPTCL/2018.	AIS		220KV	(2x160 +3x50) MVA	31		Yet to be awarded	
52	Construction of 220 /132 /33 kV Motipur GSS	AIS		220KV	(2x160 +3x50) MVA	33		10.04.2017	

53	132/ 33 KV GSS Ballia agains NIT No. 63/PR/BSPTCL/ 2014 Pkg- A	AIS		132/33 KV	1 No. -10 MVA 1 No.-50 MVA	132 KV-04 Nos. 33 KV -07 Nos		One 10 MVA Transformer charged on 13.06.2017 and another 50 MVA Transformer charged on 30.01.18
54	132/ 33 KV GSS Manjhaul agains NIT No. 63/PR/BSPTCL/ 2014 Pkg- A	AIS		132/33 KV	1 No. -10 MVA 1 No.-50 MVA	132 KV-05 Nos. 33 KV -07 Nos		50 MVA Transformer charged on load on 12/06/2017. On the Nos. 10 MVA Transformer charged on 31.08.2017
55	132/ 33 KV GSS Bakhari agains NIT No. 63/PR/BSPTCL/ 2014 Pkg- A	AIS		132/33 KV	2 Nos. 20 MVA	132 KV-05 Nos. 33 KV -07 Nos		One 20 MVA Charged on 08.08.2018 another Transformer yet to charge.
56	132/33kV Grid Sub-Station, Jagdishpur (Bhagalpur New) AGAINST nit No 10/PR/BSPTCL/ 2016	AIS		132/33 KV	3 Nos 50 MVA	132 KV-06 Nos. 33 KV -18 Nos		yet to be charged

57	132/33kV Grid Sub-Station Korha (Katihar) AGAINST nit No 10/PR/BSPTCL/2016	AIS		132/33 KV	3 Nos 50 MVA	132 KV-08 Nos. 33 KV -18 Nos		yet to be charged	
58	220/132/33 KV GSS Thakurganj against NIT No 35/PR/BSPTCL/2018	AIS		220/132/33 KV	(2x160 MVA+3	220 KV -08 Nos 132 KV-12 Nos 33 KV-13 Nos.		Tender under Process	
59	220/132 KV GSS Korha(Katihar) against NIT No 86/PR/BSPTCL/2018	AIS		220/132 KV	2X100 MVA	220 KV -8 Nos, 132 KV-02		Tender under Process	
60	160 ICT Augumentation at 220/132/33 KV Kishanganj New against NIT No 86/PR/BSPTCL/2018	AIS		220/132/33 KV	1X160 MVA	220 kv-01 Nos		Tender under Process	
61	two numbers of 132 KV Line bays each at Bettiah (132/33 KV) GSS and Raxaul (132/33 KV) GSS against NIT No 403/PR/BSPTCL /2013 Pkg D	AIS		132/33 KV	-	132 KV-04 Nos.		20.10.2017	
62	Construction of Four nos of 132 KV Line bay for power supply from GSS Motipur to TSS Mahawal, GSS Motihari to TSS Jivdhara, GSS Bettiah to TSS Majhaulia, GSS Ramnagar to TSS Harinagar	AIS		132/33 KV	-	132 KV-04 Nos.		Tender under Process	
63	Construction of 3 Nos of 132 KV Transmission line bays at GSS Begusarai (02 Nos) and Bikramganj (01 Nos) against NIT No 37/PR/BSPTCL/2015 Pkg A	AIS		132/33 KV	-	132 KV-03 Nos.		12.06.2018	

64	Construction of 4 Nos of 132 KV Transmission line bays at GSS Kishanganj(new) , Begusarai, Sonebarsa and Pusauli GSS against NIT No 37/PR/BSPTCL/ 2015 Pkg B	AIS		132/33 KV	-	132 KV-04 Nos.		12.06.2018	
65	Construction of 220/132/33 KV (2X160+3x50M VA) GSS at Garaul (Dist. Vaishali) on turnkey basis NIT No 39/PR/BSPTCL/ 2018	AIS		220/132/33	220/132 KV-2 Nos 132/33 KV- 3 Nos	220 KV - 08 Nos 132 KV- 12 Nos 33 KV- 13 Nos		Tender under Process	
66	Construction of bay extension at Laukahi GSS against NIT No.03/2014	AIS		220KV		2		06.07.2018	
67	Construction of 132/33KV Transformer Bay at 132/33 KV Jandaha GSS against NIT No. 08/2014	AIS		132KV		1		22.10.2017	
68	Construction of bay extension at Madhepura GSS against NIT No.03/2014.	AIS		220KV		4		27.04.2017	
69	Construction of 01 no. of 33KV line bay at GSS Raxaul for 33/11 KV PSS Mainatand against NIT No. 58/2015.	AIS		33KV		1		05.02.2018	
70	Construction of line bay at GSS Ramnagar , GSS Bettiah, GSS Dhanaha against NIT No.78/2014.	AIS		132KV		2		10.09.2017 (Through Main Bus)	

71	Construction of line bay at (i)GSS Kishanganj (New) against NIT (ii) Construction of line bay at GSS ArariaNo.67/2018.	AIS		220KV		2		Under Tendering Process	
72	Construction of 03 Nos of 132/33 KV Transformer Bays in Biharsharif & Dehri-on-sone Transmission Circle on turnkey basis under State Plan against NIT 122/PR/BSPTCL/2018 under State Plan	AIS		132KV		12		Under Tendering Process	
73	Construction of 04 Nos of 132/33 KV Transformer Bays in Saran, Kosi & Bhagalpur Transmission Circle on turnkey basis under State Plan against NIT No. 121/PR/BSPTCL/2018 under State Plan	AIS		132KV		12		Under Tendering Process	
74	Construction of 05 Nos of 132/33 KV Transformer Bays in Gaya Transmission Circle on turnkey basis under State Plan against NIT No. 120/PR/BSPTCL/2018 under State Plan	AIS		132KV		12		Under Tendering Process	

75	two numbers of 132 KV Line bays each at Bettiah (132/33 KV) GSS and Raxaul (132/33 KV) GSS against NIT No 403/PR/BSPTCL/2013 Pkg D	AIS		132/33 KV	-	132 KV-04 Nos.		20.10.2017	
76	Construction of Four nos of 132 KV Line bay for power supply from GSS Motipur to TSS Mahawal, GSS Motihari to TSS Jivdhara, GSS Bettiah to TSS Majhaulia, GSS Ramnagar to TSS Harinagar	AIS		132/33 KV	-	132 KV-04 Nos.		Tender under Process	
77	Construction of 3 Nos of 132 KV Transmission line bays at GSS Begusarai (02 Nos) and Bikramganj (01 Nos) against NIT No 37/PR/BSPTCL/2015 Pkg A	AIS		132/33 KV	-	132 KV-03 Nos.		12.06.2018	
78	Construction of 4 Nos of 132 KV Transmission line bays at GSS Kishanganj(new) , Begusarai, Sonebarsa and Pusauli GSS against NIT No 37/PR/BSPTCL/2015 Pkg B	AIS		132/33 KV	-	132 KV-04 Nos.		12.06.2018	
79	Construction of 220/132/33 KV (2X160+3x50M VA) GSS at Garaul (Dist. Vaishali) on turnkey basis NIT No 39/PR/BSPTCL/2018	AIS		220/132/33	220/132 KV-2 Nos 132/33 KV- 3 Nos	220 KV - 08 Nos 132 KV- 12 Nos 33 KV- 13 Nos		Tender under Process	
*Note :- Information to be provided for Pervious Year , Current Year & Ensuring Control Period									

Note: Information required for Previous years , current year and Ensuring years

Sl No.	Voltage Ratio of Transformer(KV/KV )	Previous Year (March'18)		Current Year	
		Details of Transformers		Details of Transformers	
		Total number	Total Capacity (MVA)	Total number	Total Capacity (MVA)
1	400/220	NIL	NA	NIL	NA
2	400/132	NIL	NA	NIL	NA
3	220/132	51	6430	53	6750
4	220/33	NIL	NA	NIL	NA
5	132/33	321	11330	336	12150



**(d) Investment Plan (Scheme-wise)**

Name of scheme / Project	Name of line/ Sub-station etc	Approved Outlay		Progressive upto the beginning of previous year		Previous year				Current year (RE)		Ensuing Years (Projection)		Progressive Capital expenditure upto the end of ensuing year (s)	
		Approved in MYT/RE	Actual*	Capitalization	Capital Expenditure (CWIP)	Approved in MYT/RE		Actual		Capitalization	Capital Expenditure (CWIP)	Capitalization	Capital Expenditure (CWIP)	Capitalization	Capital Expenditure (CWIP)
						Capitalization	Capital Expenditure (CWIP)	Capitalization	Capital Expenditure (CWIP)						
<b>Total</b>					**			**	**						

\*\*Must be in agreement with the figures shown in audited account, otherwise a reconciliation statement must be accompanied.

\* Please furnish separately details regarding approval of Capital Investment under BERC (Procedure for Filing Capital Investment and Capitalization Plan) Regulations, 2018 and indicate the portion which is not approved under BERC (Procedure for Filing Capital Investment and Capitalization Plan) Regulations, 2018.

Note:

- Ø The amount of grants and loans shall be furnished separately scheme wise and funding agency wise.
- Ø Additional column may be inserted(if required) for Ensuing Years (Projection).

Ø All Information for previous year, current year (RE), Ensuing year must be in line with information approved in MYT/Business Plan (if any), other-wise a statement showing complete details of variation must be accompanied.

Ø CWIP shall mean Capital Work in Progress

**(e) Investment Plan (Year-wise)**

S.N	Year	Originally proposed	Approved by the Commission	Revised	Revised approval by the Commission in review	Actual expenditure

Note: i) Information for previous year to be given in columns 1 to 7 co-relating the information given in current or earlier MYT/Business Plan (if any). □

ii) Information for the current year to be given in columns 1 to 5 co-relating the information given in MYT/Business Plan (if any)

iii) Amount of grants and loans shall be furnished separately funding Agencywise and yearwise.

**Name of Transmission Licensee****(f) Abstract of Capital Cost for the existing Project, Capital Cost Estimates and Schedule of Commissioning for the New projects**

Form No:F5

Rs Crores

	Particulars	Previous Year		Current Year (i. e. RE)	Ensuing years (Projection)		
		Approved in MYT/RE	Actual		FY (n+1)	FY (n+2)	FY (n+3)
1	Capital Cost	5153.48					
	`-Foreign Component	0.00					
	Foreign Exchange rate considered for the admitted cost						
	`-Domestic Component	5153.48					
	`-IDC including Financing Charges						
	Capital cost admitted as on-----						
	(Give reference of the BERC relevant Order with Petition No. & Date )						
2	Less : Capital Expenditure(CWIP)						
3	Less : User contributions and Grants		0.00	0.00	0.00		
4	Total Capital Cost admitted						
5	Increase /Decrease due to FERV						
6	Capital Cost for Purposes of ARR*						

\*Must be in agreement with the figures shown in Form No: F5 (page-2), otherwise a reconciliation statement must be accompanied.

**Note**

- 1.Copy of approval letter should be enclosed. Deviation in capital cost and scope of work if any, must be submitted in detailed.
2. Details of IDC & Financing Charges are to be furnished as per FORM- .

**(g) Financial Package of Capital cost Admitted**

Rs. Crores

Particulars	Capital Cost as Approved		Capital Cost Incurred		Capital cost Admitted	
	Currency	Amount	Currency	Amount	Currency	Amount
<b>Loans</b>						
Loan-I						
Loan-II						
and so on						
<b>Total Loan</b>						
<b>Equity</b>						
Foreign						
Domestic						
<b>Total Equity</b>						
<b>Total Capital cost</b>						
Debt : Equity Ratio						

Provide details for True-up period, Current Year and each of ensuing years seperately.

**Name of Transmission Licensee**

**(h) Capital Cost Estimates and Schedule of commissioning for New Projects**

**Form No: F5**

Particulars	Present Day Cost	Completed Cost
Date of approval of the Capital cost estimates:		
Price level of approved estimates	As of End of _____ Qtr. Of the year _____	As on Scheduled COD of the Station
Foreign Exchange rate considered for the Capital cost estimates		
<b>Capital Cost excluding IDC, FC, FERC &amp; Hedging Cost</b>		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. crores)		
Capital cost excluding IDC, FC, FERC & Hedging Cost (Rs. crores)		
<b>IDC, FC, FERC &amp; Hedging Cost</b>		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. crores)		
<b>Total IDC, FC, FERC &amp; Hedging Cost (Rs. crores)</b>		
Rates, taxes & duties considered		
<b>Capital cost Including IDC, FC, FERC &amp; Hedging Cost</b>		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. crores)		
<b>Capital cost Including IDC, FC, FERC &amp; Hedging Cost (Rs. crores)</b>		
<b>Schedule of Commissioning</b>		
((Scheduled DOC elementwise))		
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COD of last Unit/ Block		
Note:		
1. Copy of approval letter should be enclosed.		
2. Details of Capital cost are to be furnished as per Form F5-5 or Form 14(Additional Capitalization) as applicable.		
3. Details of IDC & Financing Charges are to be furnished as per Form 20		

Signature of Petitioner

Name of Transmission Licensee  
(i) Break -up Project Cost for Transmission System

Project  
Form No:F5

Rs.

No	Break Down	As per original estimates	Actual capital expenditure(Opening)	Vaiation (B-C)	Reasons for Variation
A	B	C	D	E	
1	Construction of 132 KV D/C Transmission Line between 220/132/33 KV Bihta	194085387	194085387	0	
2	Construction of (2X160 MVA+2X50 MVA),220/132/33 KV GSS at Bihta(Patna) & associated 220,132 & 33 kv bays extension at remote end on turnkey basis State Plan	544328922	591539432	-47210510	Due to change in layout and as per site condition & engineering
3	Construction of new 220 KV S/C Trans. Line on D/C Towers from Patna (PG)-Sipara (BSPTCL) and associated 01 no. 220 KV Bay at GSS Sipara for connecting 220/132/33 KV GSS Sipara (Sampatchak) with 400/220 KV Patna (PG) for evacuation of power from PGCIL complete in all respect under BRGF /Special Plan of phase-II extension	44557864	44557864	0	
4	Construction of 132 KV D/C Transmission Line between 220/132/33 KV Bihta (New) GSS and 132/33KV Upcoming Paliganj GSS.(Approx Line Length-35 KM) under State plan	592830109.3	592830109.3	0	
5	construction of 2 x50MVA, 132/33 KV GSS Paliganj, Patna along with 02 nos. of 132KV line bay extension at remote end under State plan	247496854	247496854	0	
6	construction of 01 no. 132 KV Transformer Bay (Hybrid type) and 01 no. 33 KV Transformer Bay at GSS Gaighat under BRGF, Phase-III, Part-II (N-1) Compliance.	43304508	41027377	2277131	Due to decrease in quantity of structure, cable, earthing material, fire wall etc as per actual site requirement.
7	Procurement and construction of 33 KV line bays in form of Indoor VCB panels at 10 nos. of AIS sub-station under transmission circle, Purnea under ADB scheme	257057925	257057925	0	
8	Procurement and construction of 33 KV line bays in form of Indoor VCB panels at 21 nos. of AIS sub-station under transmission circle, Muzaffarpur under ADB scheme	536862575	536862575	0	
9	Procurement and construction of 33 KV line bays in form of Indoor VCB panels at 08 nos. of AIS sub-station under transmission circle, Biharsharif under ADB scheme	226105932	277358432	-51252500	Due to increase in quantity of structure, cable & termination kit as per actual site requirement and layout.
10	Capacity augmentation of 220/132/33 kv & 132/33 kv Grid Substation Madhepura, Naugachia, Vaishali, Gangwara, Jamui, Ara and Bihta under ADB scheme	434984800	434984800	0	
11	Replacement of 23 nos. 50 MVA and 01 no 20 MVA transformer by 24 nos. 80 MVA along with associated bay work in existing GSS of Patna under State Plan	1076258420	1076258420	0	

12	Renovation & Up gradation of protection and control system of 220/132 kV grid Substation Bihar Sharif, Fatuha, Bodhgaya, Dehri-on-sona, Khagaul and 132/33kV Grid Substation Kataiya on turnkey basis under PSDF Scheme	696621597	696621597	0	
13	A. Re-conductoring of existing 132 kV Fatuha-Gaighat (D/C) Transmission line with ACCC HTLS Panther Equivalent Conductor.(Line Length – 27 KM) B. Re-conductoring of existing 132 kV Gaurichak – Jakkampur (D/C) Transmission Line with ACCC HTLS Panther Equivalent Conductor.(Line Length – 18 KM) under State Plan	470330289	556999011.7	-86668722.71	Work included for re-conductoring of existing panther conductor by ACCC HTLS (panther equivalent) conductor in 132KV Gaurichak-Mithapur & 132KV Gaurichak-Fatuha Transmission Line from GSS Gaurichak to LLO Tower (Loc No -
14	construction of 132 KV D/C transmission line over river crossing span on ACSR Panther conductor (approx line length – 6 KM) under deposit head of NBPDC & SBPDCL	140188417.4	152073749.2	-11885331.76	Due to construction of 01 additional pile foundation, Increase in quantity of civil volumes pertaining to pile foundations and increase in span of line as per actual site condition
15	design, manufacture, testing, supply & delivery of of 20 nos. 220 KV SF6 Circuit Breaker O&M head	23482000	23482000	0	
16	design, manufacture, testing, supply & delivery of 220 KV CTs, 220 KV PTs and 132 KV PTs under O&M head	34628368.5	34628368.5	0	
17	design, manufacture, testing, supply & delivery of 220 KV, 132 KV, 33 KV & 25 KV CTs and 220 KV, 132 KV & 33 KV PTs under O&M head	63626834.18	63626834.18	0	
18	Design, manufacture, testing, supply & delivery of 60 Sets, 220 KV Gapless Lightning Arresters under O & M Head.	42.48 Lac			
19	Capacity augmentation of different GSS by Addition /Replacement by 200 MVA Power Transformer alongwith associated bays on Turnkey Basis at GSS Khagaul & Sipara under State Plan	65.46 Cr			
20	Re-conductoring of following transmission lines with HTLS (equivalent to Panther) conductor on turnkey basis:- (1) Circuit 1 & Circuit 2 of 132 KV Bihar Sharif – Baripahari D/C Transmission line. (CKM – 14 KM approx) (2) 132 KV S/C Sipara – Mithapur – Karbigahiya Transmission line (CKM – 7 KM approx) under State Plan	14.97 Cr.			

21	Construction of (2x200 + 2x80) MVA, 220/132/33 KV Gas Insulated Sub-station at Digha (New) and 02 nos. 220 KV GIS line bays extension at GSS Sheikhopursarai (BGCL) under State Plan					141.03 Cr.
22	A	B	C	D	E	
23	Construction of 06 nos. of 132kV D/C towers from Ara(PG) to tower loc. No. 01 with ACSR Panther Conductor for connectivity of 2nd circuit of 132kV D/C Ara(PG) – Jagdishpur Transmission Line on turnkey basis under BRGF phase-III scheme (N-I) NIT No. 19/PR/BSPTCL/2017					14550394.42      14550394.42      0
24	Construction 132 KV D/C Sonenagar (New)-Aurangabad Transmission line RL-22KM under BRGF phase-III scheme (N-I) NIT No. 59/PR/BSPTCL/2014 Pkg-B					135750925      135750925      0
25	Construction of 132KV D/C Ara GSS-Jagdishpur GSS Trans Line RL-25KM under BRGF Phase –III Part –II (N-1) compliance NIT No. 59/PR/BSPTCL/2014 Pkg-C					149527308      210717948.2      61190640.24
26	Construction of 132kV D/C Karmnasha (New)-Ramgarh Transmission Line with ACSR Single Moose (Line Length-60Ckm) Construction of 132kV D/C Karmnasha (New)-Karmnasha Transmission Line with ACSR Single Moose (Line Length-7Ckm) under state plan[80:20]. NIT No. 55/PR/BSPTCL/2018	40.18Cr.				
27	Construction of (2x20) MVA, 132/33KV GSS, PIRO (Dist: Bhojpuj) NIT No.- 61/PR/BSPTCL/2014					18,29,68,150      20,06,75,533.38      17707383.38
28	Second circuit stringing of existing 04 nos of 132KV Double circuit Single strung transmission line:- 1) 132KV Biharsharif-Ekangarsarai- Hulasganj(Except LILO point to Ekangarsasari)(48.14CKM) 2)132KV Biharsharif- Nawada(48.89CKM) 3)132KV Biharsharif- Sheikhpura(38.78CKM) 4)132KV Jamui- sheikhpura(51.9CKM) under State Plan on Turnkey Basis against NIT No.- 74/PR/BSPTCL/2015	17.625 Cr.	20.35 Cr.	2.725 Cr.		Additional scope of work included which involves following:- I. Gantry extension at 06 locations at loc. No. G1, G2, G3, G4, G5 & G6 at 132 KV D/C Biharsharif- Hulasganj line. II. Diversion of OPGW of 220 KV Biharsharif
29	Bays					

30	<p>Construction of associated 06 Nos. 132KV Line Bays (03nos. at GSS Biharsharif, 2 nos. at GSS Sheikhpura and 01 no. at GSS Jamui) for 2nd circuit stringing of existing 132 KV Double Circuit Single Strung Transmission Line under Biharsharif Circle under State Plan on Turnkey Basis against NIT No.- 02/PR/BSPTCL/2016 Single package NIT No. 02/PR/BSPTCL/2016/State Plan</p>	84016500	79332438.4	-4684061.6	Due to variation in quantity as per detailed engineering during execution
31	<p>Construction of 03 (three) Nos. 132/33 KV Transformer Bays at GSS Rajgir, Ekangarsarai and Sheikhpura under Special Plan (BRGF) Scheme of Phase-III, Part-II, (N-1) Compliance for strengthening of Sub-Transmission System in Bihar on Turnkey Basis against NIT No. 06/PR/BSPTCL/2014 . Single package NIT No. 06/PR/BSPTCL/2014/Special Plan (BRGF) Scheme of Phase-III, Part-II, (N-1) Compliance</p>	59654200	56586241.4	-3067958.6	Due to variation in quantity as per detailed engineering during execution
32	<p>Construction of 220/132/33 KV, (2x160 + 3x50) MVA, GSS Asthawan (Dist.- Nalanda) including Residential Quarters with Construction of 02 Nos. 220 KV Line Bays &amp; 06 Nos. 132 KV Line Bays at remote end on Turnkey Basis. NIT No.- 41/PR/BSPTCL/2018</p>	<p>Tender yet to be awarded/ Item wise details may be provided after awarding of work.</p>			
33	<p>Construction of following associated 220KV &amp; 132KV D/C Transmission Lines of 220/132/33KV GSS Asthawan (Dist. Nalanda) on Turnkey Basis:-</p> <ol style="list-style-type: none"> <li>1. Construction of 220 KV D/C Transmission line from Sheikhopursarai(BGCL) to 220/132/33 KV GSS Asthawan (Line Length- 20 )RKM</li> <li>2. Construction of 220 KV D/C Transmission line from 220/132/33 KV GSS Biharsharif to 220/132/33 KV GSS Asthawan (Line Length - 20 RKM).</li> <li>3. Construction of 132 KV D/C Transmission line from 220/132/33 KV GSS Asthawan to 132/33 KV GSS Barh (Line Length - 40 RKM).</li> <li>4. Construction of 132 KV D/C Transmission line from 220/132/33 KV GSS Asthawan to 132/33 KV GSS Rajgir (Line Length - 40 RKM).</li> <li>5. Construction of 132 KV D/C Transmission line from 220/132/33 KV GSS Asthawan to 132/33 KV GSS Nalanda (Line Length - 30 RKM).NIT No.- 58/PR/BSPTCL/2018</li> </ol>				
34	<p>Construction of 02 nos. 220 KV GIS Line Bays at Sheikhpura GSS (BGCL), Hathidah GSS (BGCL) and Fathua GSS (BSPTCL) ( Total 6 nos. GIS line bays) on turnkey basis under state plan .</p>				
35	<p>Construction of 132 KV D/C Bakhtiyarpur (New) to Harnaut (New) Transmissionline (15 RKM) &amp; Construction of 132 KV D/C Bakhtiyarpur (New) to Baripahari Transmission line (38 RKM) under state plan (80:20):-</p> <p>Line1:Construction of 132 KV D/C Bakhtiyarpur (New) to Harnaut (New) Transmissionline (15 RKM)</p> <p>Line2:Construction of 132 KV D/C Bakhtiyarpur (New) to Baripahari Transmission line (38 RKM) NIT No. 78/PR/BSPTCL/2018</p>				

36	Construction of line bays at various Grid substations on Turnkey Basis under state plan: i. 02 Nos. 132KV line bays at GSS Harnaut, ii. 02 Nos. 132KV line bays at GSS Baripahari NIT No. 133/PR/BSPTCL/2018				
37	Second Circuit Stringing of Existing 03 Nos. of 132 KV Double Circuit Single Strung Transmission Line: i) GSS Belangunj to tapping point of L-32 & L-33 Trans. Line 2.5 CKM ii) 132 KV Gaya-Tekari and 132 KV Tekari-Goh 51.8 CKM iii) 132 KV Jehanabad-Ataula (Karpi) 22.57 CKM Under Transmission Circle Gaya on Turnkey Basis under State Plan on FIRM prices against NIT No.-72/PR/BSPTCL/2015.	73743975	74060775	-316800	Due to additional tower hanger.
38	Construction of 08 nos. 132 KV Line bays each at -Belanganj 01no. , Hulasganj-01 no., Jehanabad -01 no., Tekari-02 no., Ataula-01 no. , Chandauti-01 no., Nawada-01 no. under Trans. Circle, Gaya for 2nd ckt. stringing of existing 132 KV DCSS transmission line under State Plan against NIT No.-01/PR/BSPTCL/2016.	114147902.5	114147902.5	0	Till date no variation issued.
39	Construction of 132KV S/C Transmission Line for Solar PV Project of M/s Alfa Infraprop Pvt. Ltd. at Bhagaura from 132KV GSS Rafiganj and Construction of 01 no. 132KV line bay at GSS Rafiganj under State Plan against NIT No.-02/PR/BSPTCL/2017.	98067732.6	97427690.21	640042.392	As per engineering
40	Construction of 11 Nos. of line bays at Sherghati -01, Imamganj -01, Sonenagar-02, Aurangaba-02, Ara-02, Jagdishpur-03 & 1 No. of T/F bay at Sherghati under BRGF against NIT No.-68/PR/BSPTCL/2014.	242288750	242288750	0	Till date no variation issued.
41	Construction of 3x50MVA, 132/33KV GSS Ramgarh (Kaimur dist.) and Warislaiganj (Nawada Dist.) on turnkey basis under State Plan against NIT No.-84/PR/BSPTCL/2015	585991669	649698737.2	-63707068.19	Due to change in qty of earth mat, some electrical items and civil works.
42	Construction of 132 KV DCSS (2-phase) Tr. Line from GSS Wazirganj (BSPTCL) to TSS Tilaiya (Line length 21 KM) and 01 no. 132 KV Line Bay at GSS Wazirganj (BSPTCL) on turnkey basis under Depoist Head against NIT -12/PR/BSPTCL/2018	85812930.15	85812930.15	0	Till date no variation issued.
43	Design manufacture testing supply and delivery of Current transformers as per following details 33 KV CT 1600/ 800/ 400/ 200 1A - 400 nos 1200/ 600/ 300/ 150 1A- 435 nos against NIT No.-26/PR/BSPTCL/2017	48375870	48375870	0	Till date no variation issued.
44	Procurement and Construction of 33KV line bays in form of Indoor VCB panels at 06 nos. of AIS Sub-station under Transmission Circle Bhagalpur under ADB against ICB No.-24/Package D-1/ADB/BSPTCL/2016.	171838085	171838085	0	Till date no variation issued.



45	<p>Reconductoring of following 132KV Transmission lines on turnkey basis</p> <ol style="list-style-type: none"> <li>1. 132KV S/C Motihari Bettiah 43.04Km</li> <li>2. 132KV S/C Ramnagar Valmikinagar Surajpura 75.18Km.</li> <li>3. 132KV S/C Samastipur Hajipur Shitalpur LILO point Chapra 121Km</li> <li>4. 132KV S/C Purnea Saharsa 101.34Km</li> <li>5. 132KV S/C Forbesganj Kataiya KOSI 39.79Km</li> <li>6. 132KV S/C Forbesganj Purnea 71.42Km against ICB No.-31/Package K-1/ADB/BSPTCL/2016.</li> </ol>	398931873.1	398931873.1	0	Till date no variation issued.
46	<p>Reconductoring of following 132Kv Transmission lines on turnkey basis</p> <ol style="list-style-type: none"> <li>1. 132KV S/C Dehri Sasaram Kudra Karmnasa Transmission line 90.62Km</li> <li>2. 132KV D/C Sonenagar Garhwa Transmission Line uo to Bihar border near Nabinagar 17.74Km</li> <li>3. 132KV S/C Hathidah Sheikhpura Transmission line 28.31Km</li> <li>4. 132KV S/C Lakhisrai Jamalpur Transmission line 44.37Km</li> <li>5. 132KV S/C Jahanabad GSS to looping point of 132KV D/C Patna Sipara 47.5Km</li> <li>6. Biharsharif Barhi 132KV D/C Line from Biharsharif to Loc No. Near Manpur Gaya with addition of 31 nos. angle tower for strengthening 76Km gainst ICB No.-33/Package M-1/ADB/BSPTCL/2016.</li> </ol>	371531718.6	371531718.6	0	Till date no variation issued.
47	<p>Constructio of 02 nos. line bays at GSS Nawadah for evacuation of 10 MW and 03 MW Solar power from Solar plant by Solar developers</p>	6871185.44	6871185.44	0	Till date no variation issued.
48	<p>Construction of (i) LILO of Barh-Patna 400 KV D/C ( QUAD) Transmission line at Bakhtiyarpur ( New) (10RKM) (ii) Bakhtiyarpur ( New) - Sheikhpura ( New) 220 KV D/C Transmission Line (51 RKM) (iii) Bakhtiyarpur (New) –Hathidah(New) 220 KV D/C Transmission Line (52 RKM) and (iv) Bakhtiyarpur ( New) – Fathua (BSPTCL) 220 KV D/C Transmission Line (28 RKM) under state plan[ 80:20] against NIT No.-77/PR/BSPTCL/2018</p>	153.68 Cr			
49	<p>Re-conductoring of 132 KV Chandauti-Sonenagar S/C Trans. Line (L-30) and 132 KV Chandauti-Rafiganj-Sonenagar Trans. Line (L-31) with HTLS conductor (equivalent to Panther) on turnkey basis. (Route length- 78.21 KM) against NIT No.-109/PR/BSPTCL/2018</p>	79.94 Cr			
50	<p>Construction of 132 KV D/C Transmission Line for LILO of Chandauti-Sonenagar (L-30) 132 KV S/C Transmission Line and Chandauti-Rafiganj-Sonenagar (L-31) 132 KV S/C Transmission Line at GSS Chandauti (New) with HTLS Conductor (equivalent to Panther) conductor on turnkey basis. (Route length –46 KM) against NIT No.-110/PR/BSPTCL/2018</p>	67.80 Cr			
51	<p>Construction of 220 KV D/C trans. line for LILO of both circuits of 220 KV D/C Gaya (PG)- Sonenagar (BSPTCL) trans. line at 400/220/132 KV Chandauti (new) GSS of route length 1.5 Km and 220/132/33 KV Bodhgaya (BSPTCL) of route length 19 km</p>	51.73 Cr			

52	3X50 MVA,132/33 KV GSS Kerpa against NIT no:- 08/PR/BSPTCL/2017	31.69 Crore	0	0	No variation till yet.
53	Shifting/height raising of 132KV D/C towers including dismantling of existing tower of location no. 78,78A,79,80 (Previous Location No:- 90,91,92&93)of 132 KV D/C transmission line (Sonenagar-Garhwa-Rihand) on turnkey basis under deposit head of BRBCL. NIT No:-49/PR/BSPTCL/2016	1.70 Crore	0	0	No variation till yet.
54	Construction of 132 and 33kv Transmission Lines(ADB Funded) ICB No:- 07/Packag-I-BSEB/ADB/2010	55.39 Crore	46.96 Crore	(-) 8.43 Crore	Actual length of Transmission line reduced.
55	Construction of 220kv Transmission Lines(ADB Funded) ICB No:- 08/Packag-J-BSEB/ADB/2010	39.06 Crore	0	0	No variation till yet.
56	i) LILO of one ckt. At north of muthani railway station from 132KV D/C Pusouli (New) – Mohania Trans. Line to proposed 3x50 MV Ramgarh GSS (BSPTCL of route length 20Km. ii) LILO of 132KV Line Biharsharif – Nawada D/C Trans. Line – Warsaliganj (New) GSS of Route length 40Kms.iii) LILO of one Ckt. Of 132KV Chhapra – Siwan Transmission Line – Siwan (New) GSS near Darauli of route length 45Kms. Turnkey basis under Under State Plan. (State plan) NIT No:- 83/PR/BSPTCL/2015	56.17 Crore	46.55 Crore	(-)5.74 Crore	Actual length of Transmission line reduced.
57	Construction of 2x50 MVA , 132/33KV GSS Bhabhua (State Plan) NIT No:- 90/PR/BSPTCL/2014	25.05 Crore	25.68 Crore	.62 Crore	As per Earthing layout
58	Relocation/Reroting of 132 KV D/C Transmission Line (Sonenagar- Garhwa-Rihand) NIT No:- 46/PR/BSPTCL/2015 (Deposit head)	4.02 Crore	6.18 Crore	2.16 Crore	Extra work of a LILO line has been added in contract.
59	Construction of 33 kV Line Bays in form of Indoor VCB Panel at 13 nos. of AIS Substation Under Transmission Circle Gaya on Turnkey Basis. ICB No:-27/Pkg-G1/ BSPTCL/ADB/16 (ADB Funded)	30.04 Crore	38.44 Crore	8.39 Crore	Location of Outgoing Feeder at different GSS sites were rearranged at other vacant location of GSS for avoiding residential area & hindrance free approach for outgoing 33KV Lines for Discoms

60	Construction of 33 kV Line Bays in form of Indoor VCB Panel at 14 nos. of AIS Substation Under Transmission Circle Dehri-On-Sone on Turnkey Basis.ICB No:- 28/Pkg-H1/ BSPTCL/ADB/16 (ADB Funded)	36.54 Crore	41.09 Crore	4.55 Crore	Location of Outgoing Feeder at different GSS sites were rearranged at other vacant location of GSS for avoiding residential area & hindrance free approach for outgoing 33KV Lines for Discoms
61	Construction of 33KV Line Bays in form of Indoor GIS Panel at Different 220/132/33 KV & 132/33KV AIS Sub-Station in Patna District of Bihar under Package J-1 BSPTCL/ADB /2016	60.36 Crore	70.74 Crore	10.38	Location of Outgoing Feeder at different GSS sites were rearranged at other vacant location of GSS for avoiding residential area & hindrance free approach for outgoing 33KV Lines for Discoms
62	Re-conductoring of 05 nos. 220KV & 132KV Transmission lines. (ADB Funded)ICB No:-32/Pkg-L1/ BSPTCL/ADB/16 (ADB Funded)	32.40 Crore	0	0	No variation till yet.
63	Construction of 220 KV D/C Amnaur-Digha Transmission Line with ACSR Zebra Conductor (Line Length - 96 RKM) under state plan[80:20]. NIT No. 64/PR/BSPTCL/2018state plan (80:20)	202 Crore	0	0	Work is to be awarded. Itemwise price breakup will be submitted after award.
64	. Construction of 220kV D/c Pusauli (PG)- Sahpuri LILO Karmnasha (new) Transmission line with single moose (Line length-12 Ckm) on turnkey basis.2. Construction of 220kV D/c Pusauli (BSPTCL)- Karmnasha (New) Transmission Line with twin moose (Line length - 80 Ckm) on turnkey basisstate plan (80:20) NIT No:- 56/PR/BSPTCL/2018	87.86 Crore	0	0	Work is to be awarded. Itemwise price breakup will be submitted after award.
65	Construction of 220/132/33 KV (2x200 MVA + 3x50MVA) GSS Karmnasha (new)] NIT No:- 56/PR/BSPTCL/2018	95.86 Crore	0	0	Work is to be awarded. Itemwise price breakup will be submitted after award.

66	Addition of 3rd 160MVA, 220/132KV ICT along with associated transformer bays at Sonenagar (New) GSS on turnkey basis	13.21 Crore	0	0	Work is to be awarded. Itemwise price breakup will be submitted after award.
67	Construction of 132 KV D/C TRANSMISSION LINE FROM JAMUI (BSPTCL)- JAMUI (NEW) GSS (Route Length- 30 KM) against NIT87	Rs. 16,32,00,724.23	Rs. 15,38,23,283.01	(-) Rs.93,77,441.22	reduction of line length from 30km to 24.582km
68	Construction of 132 KV D/C TRANSMISSION LINE FROM BANKA (NEW)- JAMUI (NEW ) (Route Length : 35 KM)against NIT87	Rs. 21,25,03,680.00	Rs.22,13,50,473	(+)Rs.88,46,793	increase in line length from 35km to 36.221km
69	Construction of 132 KV LILO line of both circuit of 132 KV BTPS-Purnea transmission line to new GSS near Korha (Distt.-Katihar) (Route length= 20 KM).against NIT87	Rs. 20,25,58,592.3	Rs. 20,25,58,592.3	0	no variation
70	Construction of 132 KV LILO line on one line of 132 KV Sabour-Sultanganj transmission line to new GSS near Nathnagar (Distt.-Bhagalpur) (Route length= 10 KM).against NIT87	Rs.5,33,04,146.00	Rs.5,33,04,146.00	0	no variation
71	Construction of 132 KV D/C transmission lines from GSS Banka(BSPTCL)-GSS Banka(new)( Approximate Route Length-30 KM )against NIT No.- 18/PR/BSPTCL/2016	Rs.15,75,70,836.96	Rs.19,40,77,796.93	(+)Rs.6,13,38,896.21	quantity variation in supply & erection portion as per detailed engineering, approved SLD and layout
72	Construction of LILO of both circuit of 132 KV D/C Purnea - BTPS Transmission line (CKM-40 KM)against NIT No.12/PR/BSPTCL/2015Pkg.B	Rs.10,24,89,291.00	Rs.10,24,89,291.00	Rs.0.00	no variation
73	LILO on both circuits of 220KV D/C Begusarai-Purnea (PG) Transmission Line at 220/132/33KV Khagaria (new) GSS against NIT No. 12/PR/BSPTCL/2016 Package A.	Rs.8,86,29,823.52	Rs.8,86,29,823.52	Rs.0.00	no variation
74	construction of 3x50 MVA, 132/33 KV GSS Banka under State Plan.against NIT 86/PR/BSPTCL/2015	Rs. 24,93,74,746.50	Rs. 26,14,08,305.50	(+)Rs. 27,15,40,243.5	Quantity variation in supply & erection portion as per detailed engineering, approved SLD and layout

75	construction of 3x50 MVA, 132/33 KV GSS Jamui under State Plan.against NIT 86/PR/BSPTCL/2015	Rs. 24,93,74,746.50	Rs. 26,15,08,305.57	(+)Rs. 27,09,98,667.57	Quantity variation in supply & erection portion as per detailed engineering, approved SLD and layout
76	Construction of 220/132/33 kV Grid Sub Station KHAGARIA (NEW)	Rs.70,00,00,000.00	Rs.70,00,00,000.00	Rs.0.00	no variation
77	Construction of 220 KV D/C Saharsa( New)- Khagaria(New) Transmission line with ACSR Zebra Conductor (Approx Route Length-80KM) on turnkey basis under State Plan. Against NIT No.57/PR/BSPTCL/2018	Rs. 114,00,00,000.00	Rs. 114,00,00,000.00	Rs.0.00	Work is yet to be awarded.I temwise details will be provided after award of work.
78	Construction of 132 KV Transmission line (2-phase) from Jamalpur (BSPTCL) to Jamalpur (TSS) of route length 5.0 KM (4.0 Km through overhead and 01 Km through Underground XLPE cable) and 01 no. associated 132 KV Line bay at Jamalpur invited vide N.I.T No-47/PR/BSPTCL/2018.under deposit head.	Rs.13,68,00,000.00	Rs.13,68,00,000.00	Rs.0.00	Work is yet to be awarded.I temwise details will be provided after award of work.
79	Re-conductoring of following transmission lines with HTLS(equivalent to Panther) conductor on turnkey basis invited vide Tender No.113/PR/BSPTCL/2018 :- 1. 132 KV S/C Kahalgaon (BSPTCL)- Kahalgaon (NTPC) Trans Line.(CKM-7KM) 2. 132 KV S/C Kahalgaon-Sabour Trans Line (CKM-27KM)	Rs. 19,43,00,000.00	Rs. 19,43,00,000.00	Rs.0.00	Work is yet to be awarded.I temwise details will be provided after award of work.
80	Construction of 02 Nos. of 220KV Line bays at Begusarai GSS & 2 Nos. 220KVLine bays at Khagaria(New) GSS with SAS under State Plan against NIT No.68/PR/BSPTCL/2018	Rs.16,25,00,000.00	Rs.16,25,00,000.00	Rs.0.00	Work is yet to be awarded.I temwise details will be provided after award of work.
<b>A1</b>	<b>Transmission Line</b>	<b>Construction of 220 KV D/C Transmission line from BTPS (Extension Project) to</b>			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total Amount	765785682.5	1057803158	-292017475.3	Change in line length as per site requirement and quantity variation
<b>A2</b>		<b>Construction of 220 KV D/c transmission line from 220/132/33 KV GSS Chapra</b>			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				

2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total Amount	849325372.4	NIL	NA	
A3		Construction of LILO of one Ckt of 132 KV D/C Kishanganj (Old)-Forbisganj			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total Amount	179300000	NIL	NA	
A-4		Construction of Loop In Loop Out arrangement of 132 KV Transmission line			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total Amount	106521968.2	168185109.2	-61663141	Due to quantity variation
A-5		Construction of 220 KV D/C Saharsa(New)-Begusarai Transmission line with ACSR			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total Amount	165.64 Crore	NIL	N/A	Tender under Progress
A-6		Construction of 132 KV D/c transmission line from Laukahi – Phulparas with HTLS			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				

2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total Amount	42.69Crore	NIL	N/A	Tender under Progress
A-7	Transmission Line	Second circuit stringing of 220 KV DCSS Darbhanga (400/220 KV) – Samastipur (New)			
1	Preliminary works				
1.1	Design & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total- Transmissionlines	80900000	NIL	N/A	Tender under Progress
A-8	CAPACITOR BANK	211302498.4	215576287.3	4273788.9	DUE TO CHANGE IN THE CABLE QUANTIT Y AND GST RATE.
A-9	Transmission Line	132KV DCSS Transmission Line from GSS Samastipur (New) to Shahpur Patori against NIT			
	Total Amount	13,26,27,641.2	14,46,51,156.56	- 1,20,23,515.36	Quantity variation
A-10	Transmission Line	132KV S/C Kuleshwarsthan to Benipur against NIT No.81/PR/BSPTCL/2014			
	Total Amount	15,13,79,206.08	17,92,86,906.38	(-) 2,79,07,700.3	Quantity variation
A-11	Transmission Line	Construction of 132 kv D/C Transmission Line with ACSR Panther conductor between			
	Total Amount	6,11,72,329.38	9,84,67,896.61	-37295567.23	Quantity variation
A-12	Transmission Line	second circuit stringing of:			
	Total Amount	9,65,53,900	9,65,53,900	0	
A-13	Transmission Line	Construction of 132 kv S/C Transmission Line on D/C Tower with ACSR Panther			
	Total Amount	10,42,52,851.76	12,42,84,340.35	-20031488.59	Quantity variation
A-14	Name of line	Construction of 220 KV D/C Transmission Line from 220/132/33 KV GSS Raxaul (New) to			
	Total Amount	147.81Cr	NIL	NA	NA
A-15	Name of line	Construction of (i) 220 KV D/C Transmission Line from GSS Sitamarhi (New) to			
	Total Amount	119.65Cr	NIL	NA	NA
A	Transmission Line	Construction of 132 KV D/C Transmission line by making LILO arrangement of 132 KV			
	Total Amount	52.80Cr	NIL	NA	NA
No	Break Down	As per original estimates	Actual capital expenditure(Opening)	Vaiation (B-C)	Reasons for Variation
	A	B	C	D	E
A	Transmission Line	Construction of 220 KV & 132 KV D/C Transmission line for evacuation of power from			
1	Preliminary works				
1.1	Design & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				

No	Break Down	As per original estimates	Actual capital expenditure(Opening)	Vaiation (B-C)	Reasons for Variation
A	A	B	C	D	E
	Total- Transmissionlines (In Cr.)	148.2	193.19	44.99	Addition in scope of work,OPGW Equipments like SDH,and as per engineering
A	Transmission Line	Construction of 220 KV & 132 KV D/C Transmission line for evacuation of power from			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total- Transmissionlines (In Cr.)	93.88	123.09	29.21	Tower Accessories , Hardware fittings, OPGW Equipments etc.

A	Transmission Line	Construction of			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total- Transmissionlines (In Cr.)	126.24		No Variation till date	

No	Break Down	As per original estimates	Actual capital expenditure(Opening)	Vaiation (B-C)	Reasons for Variation
A	A	B	C	D	E
A	Transmission Line	Construction of 220 KV D/C Sitamarhi (New)- Raxaul(New) Transmission Line with			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				



	Total- Transmissionlines (In Cr.)	214.05	Yet to be awarded	Yet to be awarded	Yet to be awarded
A	Transmission Line	220/132/33 KV GSS Tajpur (Line Length -30 KM).			
1	Preliminary works				
1.1	Design & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total- Transmissionlines (In Cr.)	103.6	Yet to be awarded	Yet to be awarded	Yet to be awarded

A-1	Transmission Line	132 KV S/C Purnea – SaharsaLilo at Banmankhi against NIT No. 35/PR/BSPTCL/2015			
1	Preliminary works				
1.1	Design & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total- Transmissionlines	2.3(without ET)	5.35 (without ET)	-3.05	Quantity Variation

No	Break Down	As per original estimates (Rs in Crs)	Actual capital expenditure(Opening) ( Rs in Crs)	Vaiation (B-C)	Reasons for Variation
	A	B	C	D	E

A-2	Transmission Line	LILO of 132 KV Purnea - Forbesganj line at Rajwara(Chahatapur) for 132/33 KV			
1	Preliminary works		0		
1.1	Design & Engineering		0		
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works		0		
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total- Transmissionlines	14.35 (without ET)	15.28 (without ET)	-0.93	Quantity Variation

No	Break Down	As per original estimates	Actual capital expenditure(Opening)	Vaiation (B-C)	Reasons for Variation
	A	B	C	D	E

A-3	Transmission Line	132 KV S/C Bikramganj – Piro TL against NIT No. 35/PR/BSPTCL/2015			
1	Preliminary works				
1.1	Design & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				

	<b>Total Transmission Line Materials</b>				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	<b>Total- Transmissionlines</b>	<b>8.52 (without ET)</b>	<b>8.82 (without ET)</b>	<b>-0.3</b>	<b>Quantiy Variation</b>
A-4	<b>Transmission Line</b>	<b>132 KV D/C Phulparas – sapoul Lilo at Nirmali TL against NIT No. 35/PR/BSPTCL/2015</b>			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	<b>Total Preliminary works</b>				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	<b>Total Transmission Line Materials</b>				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	<b>Total- Transmissionlines</b>	<b>14.31 (without ET)</b>	<b>9.61 (without ET)</b>	<b>4.7</b>	<b>Quantiy Variation</b>
A-5	<b>Transmission Line</b>	<b>132 KV D/C Begusarai – BakhariLilo at Manjhaul TLNIT No. 35/PR/BSPTCL/2015</b>			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	<b>Total Preliminary works</b>				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	<b>Total Transmission Line Materials</b>				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	<b>Total- Transmissionlines</b>	<b>3.05 (without ET)</b>	<b>5.69 (without ET)</b>	<b>-2.64</b>	<b>Quantiy Variation</b>
A-6	<b>Transmission Line</b>	<b>132 KV D/C Begusarai – BakhariLilo at Ballia</b>			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	<b>Total Preliminary works</b>				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	<b>Total Transmission Line Materials</b>				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	<b>Total- Transmissionlines</b>	<b>7.41 (without ET)</b>	<b>13.72 (without ET)</b>	<b>-6.31</b>	<b>Quantiy Variation</b>
A-7	<b>Transmission Line</b>	<b>132 KV S/C Purnea – KatiharLilo at Manihari</b>			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	<b>Total Preliminary works</b>				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	<b>Total Transmission Line Materials</b>				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	<b>Total- Transmissionlines</b>	<b>10.93 (without ET)</b>	<b>20.29 (without ET)</b>	<b>#VALUE!</b>	<b>Quantiy Variation</b>

A-8	Transmission Line	132KV D/C Begusarai -Bakhari Line against NIT No. 35/PR/BSPTCL/2015		
1	Preliminary works			
1.1	Dessign & Engineering			
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil			
	Total Preliminary works			
2	Transmission Line material			
2.1	Towers Steel			
2.2	Conductor			
2.3	Earth Wire			
2.4	Insulators			
2.5	Hardware Fittings			
2.6	Conductor & Earthwire accessories			
2.7	Spares			
2.8	Erection , Stringing & Civil works			
	Total Transmission Line Materials			
3	Taxes and Duties			
3.1	Custom Duty			
3.2	Other Taxes & Duties			
	*Pertaining to Transmission			
	Total- Transmissionlines	26.07 (without ET)	18.66 (without ET)	7.41
A-9	Transmission Line	Second circuit stringing of 132 KV DCSS Saharsa-Udakishanganj(50.5 CKM) against		
1	Preliminary works			
1.1	Dessign & Engineering			
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil			
	Total Preliminary works			
2	Transmission Line material			
2.1	Towers Steel			
2.2	Conductor			
2.3	Earth Wire			
2.4	Insulators			
2.5	Hardware Fittings			
2.6	Conductor & Earthwire accessories			
2.7	Spares			
2.8	Erection , Stringing & Civil works			
	Total Transmission Line Materials			
3	Taxes and Duties			
3.1	Custom Duty			
3.2	Other Taxes & Duties			
	*Pertaining to Transmission			
	Total- Transmissionlines	4.65 (without ET)	4.65 (without ET)	0
A-10	Transmission Line	Second circuit stringing of 132 KV Begusarai-Kuseshwarsthan (67.27 CKM)		
1	Preliminary works			
1.1	Dessign & Engineering			
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil			
	Total Preliminary works			
2	Transmission Line material			
2.1	Towers Steel			
2.2	Conductor			
2.3	Earth Wire			
2.4	Insulators			
2.5	Hardware Fittings			
2.6	Conductor & Earthwire accessories			
2.7	Spares			
2.8	Erection , Stringing & Civil works			
	Total Transmission Line Materials			
3	Taxes and Duties			
3.1	Custom Duty			
3.2	Other Taxes & Duties			
	*Pertaining to Transmission			
	Total- Transmissionlines	6.21 (without ET)	6.21 (without ET)	0
A-11	Transmission Line	Second circuit stringing of 132 KV Madhepura-Sonebarsa tr. Line (50.5 CKM) against		
1	Preliminary works			
1.1	Dessign & Engineering			
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil			
	Total Preliminary works			
2	Transmission Line material			
2.1	Towers Steel			
2.2	Conductor			
2.3	Earth Wire			
2.4	Insulators			
2.5	Hardware Fittings			
2.6	Conductor & Earthwire accessories			
2.7	Spares			
2.8	Erection , Stringing & Civil works			
	Total Transmission Line Materials			
3	Taxes and Duties			
3.1	Custom Duty			
3.2	Other Taxes & Duties			
	*Pertaining to Transmission			
	Total- Transmissionlines	4.66(without ET)	4.66 (without ET)	0
A-12	Transmission Line	Construction 220 KV D/C Line by making LLO arrangement of both circuits of 220 KV		
1	Preliminary works			
1.1	Dessign & Engineering			
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil			
	Total Preliminary works			
2	Transmission Line material			
2.1	Towers Steel			
2.2	Conductor			
2.3	Earth Wire			
2.4	Insulators			

2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total- Transmissionlines	14.14 including GST	NA Tender under progress	NA Tender under progress	
A-13	Transmission Line	132 KV D/C Thakurganj- Araria Transmission Line with ACSR Panther Conductor (Line			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total- Transmissionlines	93.16 including GST	NA Tender under progress	NA Tender under progress	
A-14	Transmission Line	220 KV D/C Kishanganj (New)- Thakurganj Transmission Line with ACSR Zebra			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total- Transmissionlines	74.29 including GST	NA Tender under progress	NA Tender under progress	
A	Transmission Line	132KV D/C Kusheshwarsthan- Sonebarsa T/L against NIT 16/PR/BSPTCL/2014			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total- Amount		80.64	110.8	-30.16 Due to quantity variation
A	Transmission Line	220 KV Kishanganj New- Madhepura D/C Tx. Line against NIT 02/PR/BSPTCL/2015			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				

2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total Amount	117.5	129.78	-12.28	Due to quantity variation
A	Transmission Line	220 KV (D/C) Line between Madhepura to Laukhi with AL-59 Conductor against NIT			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total- Amount	98.69	107.5	-8.81	Due to quantity variation
A	Transmission Line	220 KV Purnea (PG) – Begusarai D/C Tx. Line against NIT no.27/2015			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total- Amount	97.2	114.91	-17.71	Due to quantity variation
A	Transmission Line	132 KV LILO T/I on one of the CKT of 132 KV Betia--Dhanha to Ramanagar GSS against			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
	Total- Amount	29.437	33.41	-3.973	Due to quantity variation
A	Transmission Line	Construction of LILO of one circuit of 132KV Laukahi-Supaul Transmission Line at			
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection , Stringing & Civil works				

	Total Transmission Line Materials					
3	Taxes and Duties					
3.1	Custom Duty					
3.2	Other Taxes & Duties					
	*Pertaining to Transmission					
	Total- Amount		14.95	15.28	-0.33	Due to quantity variation
A	Transmission Line		Construction of (i)LILO arrangement of 132 KV DCSS Saharsa(OLD)-Banmankhi			
1	Preliminary works					
1.1	Dessign & Engineering					
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil					
	Total Preliminary works					
2	Transmission Line material					
2.1	Towers Steel					
2.2	Conductor					
2.3	Earth Wire					
2.4	Insulators					
2.5	Hardware Fittings					
2.6	Conductor & Earthwire accessories					
2.7	Spares					
2.8	Erection , Stringing & Civil works					
	Total Transmission Line Materials					
3	Taxes and Duties					
3.1	Custom Duty					
3.2	Other Taxes & Duties					
	*Pertaining to Transmission					
	Total- Amount		49.57	NA		Work yet to be awarded
No	Break Down		As per original estimates (Rs in Crs)	Actual capital expenditure(Opening) (Rs in Crs)	Vaiation (B-C)	Reasons for Variation
	A		B	C	D	E
A-1	Transmission Line		132 KV D/C T/L from Motihari (400 KV) to Motihari (BSPTCL) against NIT No			
1	Preliminary works					
1.1	Dessign & Engineering					
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil					
	Total Preliminary works					
2	Transmission Line material					
2.1	Towers Steel					
2.2	Conductor					
2.3	Earth Wire					
2.4	Insulators					
2.5	Hardware Fittings					
2.6	Conductor & Earthwire accessories					
2.7	Spares					
2.8	Erection , Stringing & Civil works					
	Total Transmission Line Materials					
3	Taxes and Duties					
3.1	Custom Duty					
3.2	Other Taxes & Duties					
	*Pertaining to Transmission					
			7.42	8.54	-1.12	Due to quantity variation
No	Break Down		As per original estimates (Rs in Crs)	Actual capital expenditure(Opening) (Rs in Crs)	Vaiation (B-C)	Reasons for Variation
	A		B	C	D	E
A-2	Transmission Line		132 KV D/C T/L from Motihari (400 KV) to Bettiah against NIT No			
1	Preliminary works		0			
1.1	Dessign & Engineering		0			
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil					
	Total Preliminary works			0		
2	Transmission Line material					
2.1	Towers Steel					
2.2	Conductor					
2.3	Earth Wire					
2.4	Insulators					
2.5	Hardware Fittings					
2.6	Conductor & Earthwire accessories					
2.7	Spares					
2.8	Erection , Stringing & Civil works					
	Total Transmission Line Materials					
3	Taxes and Duties					
3.1	Custom Duty					
3.2	Other Taxes & Duties					
	*Pertaining to Transmission					
			22.27	18.69	3.58	Due to quantity variation
No	Break Down		As per original estimates	Actual capital expenditure(Opening)	Vaiation (B-C)	Reasons for Variation
	A		B	C	D	E
A-3	Transmission Line		132 KV D/C T/L from Motihari (400 KV) to Raxaul against NIT No 403/PR/BSPTCL/2013			
1	Preliminary works					
1.1	Dessign & Engineering					
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil					
	Total Preliminary works					

2	Transmission Line material					
2.1	Towers Steel					
2.2	Conductor					
2.3	Earth Wire					
2.4	Insulators					
2.5	Hardware Fittings					
2.6	Conductor & Earthwire accessories					
2.7	Spares					
2.8	Erection , Stringing & Civil works					
	Total Transmission Line Materials					
3	Taxes and Duties					
3.1	Custom Duty					
3.2	Other Taxes & Duties					
	*Pertaining to Transmission					
			19.48	27.42	-7.94	Due to quantity variation
	Break Down	As per original estimates (Rs in Crs)	Actual capital expenditure(Opening) ( Rs in Crs)	Vaiaition (B-C)	Reasons for Variation	
	A	B	C	D	E	
A-4	Transmission Line	132 KV S/C transmission lines on D/C Tower from 132/33 KV Dhaka GSS to upcoming				
1	Preliminary works					
1.1	Dessign & Engineering					
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil					
	Total Preliminary works					
2	Transmission Line material					
2.1	Towers Steel					
2.2	Conductor					
2.3	Earth Wire					
2.4	Insulators					
2.5	Hardware Fittings					
2.6	Conductor & Earthwire accessories					
2.7	Spares					
2.8	Erection , Stringing & Civil works					
	Total Transmission Line Materials					
3	Taxes and Duties					
3.1	Custom Duty					
3.2	Other Taxes & Duties					
	*Pertaining to Transmission					
			67.18	48.16	19.02	Due to quantity variation
	Break Down	As per original estimates (Rs in Crs)	Actual capital expenditure(Opening) ( Rs in Crs)	Vaiaition (B-C)	Reasons for Variation	
	A	B	C	D	E	
A-7	Transmission Line	Construction of Four nos of 132 KV single circuit transmission line (2-Phase strung)				
1	Preliminary works					
1.1	Dessign & Engineering					
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil					
	Total Preliminary works					
2	Transmission Line material					
2.1	Towers Steel					
2.2	Conductor					
2.3	Earth Wire					
2.4	Insulators					
2.5	Hardware Fittings					
2.6	Conductor & Earthwire accessories					
2.7	Spares					
2.8	Erection , Stringing & Civil works					
	Total Transmission Line Materials					
3	Taxes and Duties					
3.1	Custom Duty					
3.2	Other Taxes & Duties					
	*Pertaining to Transmission					
			5.4	Nil		work under progress
	Break Down	As per original estimates (Rs in Crs)	Actual capital expenditure(Opening) ( Rs in Crs)	Vaiaition (B-C)	Reasons for Variation	
	A	B	C	D	E	
A-8	Transmission Line	220 KV D/C Muzaffarpur(PG)-Garaul Transmission Line with ACSR Zebra Conductor				
1	Preliminary works					
1.1	Dessign & Engineering					
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil					
	Total Preliminary works					
2	Transmission Line material					
2.1	Towers Steel					
2.2	Conductor					
2.3	Earth Wire					
2.4	Insulators					
2.5	Hardware Fittings					
2.6	Conductor & Earthwire accessories					
2.7	Spares					
2.8	Erection , Stringing & Civil works					
	Total Transmission Line Materials					
3	Taxes and Duties					
3.1	Custom Duty					
3.2	Other Taxes & Duties					

*Pertaining to Transmission				
				Work yet to be awarded
		103.14	nil	
Break Down	As per original estimates (Rs in Crs)	Actual capital expenditure(Opening) (Rs in Crs)	Vaiation (B-C)	Reasons for Variation
A	B	C	D	E
A-12	Transmission Line	Reconductoring 132 KV Muzaffarpur-SKMCH S/C Transmission Line with HTLS		
		31.04	nil	Work yet to be awarded

Form No:F5

(i) Break -up Project Cost for GSS/Bay

Rs. Crores

No	Break Down	As per original estimates (Rs in Crs)	Actual capital expenditure(Opening) (Rs in Crs)	Vaiation (B-C)	Reasons for Variation
A	B	C	D	E	
A-1	Bay	two numbers of 132 KV Line bays each at Bettiah (132/33 KV) GSS and Raxaul (132/33 KV)			
		6.95	7.02	-0.07	Due to quantity variation
A-2	Bay	Construction of Four nos of 132 KV Line bay for power supply from GSS Motipur to			
		14.06	Nil		work under progress
A-3	Bay	Pkg A-Construction of 3 Nos of 132 KV Transmission line bays at GSS Begusarai (02)			
		13.69	Nil		
B1.	Substations	Construction of 132/33KV GSS Chakiya, Jhanjharpur & Pakridaya against			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				



11	Total Cost	413000550	442107212.5	-29106662.5	Change in length of road and addition of approach road construction in scope of work
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B3</b>	<b>Substations</b>	<b>Construction of 132/33KV GSS Siwan New against NIT No</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	235126510	247069909	-11943399	Variation in quantity as per engineering drawing
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B4</b>	<b>Substations</b>	<b>Construction of 132/33KV GSS Hathua, Maharajganj, Narkaiyaganj &amp;</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				

5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	792441508	816984408	-24542900	Due to quantity variation
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B5</b>	<b>Substations</b>	<b>Augmentation of existing 132/33 KV GSS Ekma (1x20MVA + 1x50MVA) by</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	381956396	NIL	NA	
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				

12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B6</b>	<b>Substations</b>	<b>Capacity augmentation of GSS Hajipur, Gopalganj &amp; Darbhanga by</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit & Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	670800000	NIL	NA	
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B8</b>	<b>Substations</b>	<b>Construction of 02 Nos. 132KV line bays each at GSS Muzaffarpur &amp;</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				

9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	93200000	NIL	NA	
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B9</b>	<b>Substations</b>	<b>Construction of 02 Nos. 132KV line bay at GSS Runnisaidpur &amp; 02 Nos</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	123100000	NIL	NA	
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B10</b>	<b>Substations</b>	<b>Construction of 132/33 KV, 2 x20MVA Nirmali, 2 x 20 MVA, 2 x 20 MVA</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				

5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	Rs.732441254	Rs.788856312	Rs.56415058	Due to quantity variation
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B11</b>	<b>Substations</b>	<b>Construction of 2 x20MVA , 132/33KV GSS Tarapur, Teghra and Simri</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				

11	Total Cost	Rs.806092440	Rs.638444109.35	Rs.167648330.65	Due to deletion of GSS Gogri due to unavoidable reason.
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B12</b>	<b>Substations</b>	<b>Construction of 2 x50MVA , 132/33KV GSS Araria, Barsoi, Baisi and</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	Rs.919184577	Rs.1057744494.01	Rs.138559917.01	Due to addition of 50MVA Transformer in each grid in place of 20MVA.
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B13</b>	<b>Substations</b>	<b>Construction of 3x50MVA , 132/33KV GSS Raghapur against NIT</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				

5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	Rs.323017596	Rs.323017596	0	N/A
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B14</b>	<b>Substations</b>	<b>Bay extension works at Kuseswarsthan, Udakishanganj, Sonebarsa and</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	Rs.194883000	Rs.194883000	0	N/A
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				

<b>B15</b>	<b>Substations</b>	<b>Construction of 05 nos. of 132 KV Line Bays in Grid Sub Station of</b>		
4	Preliminary works & land			
4.1	Desgin & Engineering			
4.2	Land			
4.3	Site preparation			
	Total Preliminary works & land			
5	Civil Works			
5.1	Control Room & Office Building			
5.2	Township & Colony			
5.3	Roads and Drainage			
5.4	Foundation for structures			
5.5	Misc. Civil Works			
	Total Civil Works			
6	Substation Equipments			
6.1	Switchgear (CT,PT,Circuit Breaker,			
6.2	Transformers			
6.3	Compensating Equipment(Reactor,			
6.4	CONTROL, Relay&			
6.5	PLCC			
6.6	HVDC package			
6.7	Bus Bars /conductors/Insulators			
6.8	Outdoor lighting			
6.9	Emergency D.Gset			
6.1	Grounding System			
6.1	Structure for switchyard			
	Total Substation Equipment			
7	Spares			
8	Taxes and Duties			
9	Construction and pre -			
9.1	Site supervision & site admn.etc			
9.2	Tools and Plants			
9.3	construction Insurance			
	Total Construction and pre			
10	Overheads			
10	Establishment			
10	Audit& Accounts			
10	Contingency			
	Total Overheads			
11	Total Cost	Rs.80304189	Rs.80304189	0 N/A
12	IDC,FC,FERV& Hedging Cost			
12	Interest During Construction(IDC)			
12	Foreign Exchange Rate Variation			
12	Hedging Cost			
	Total of IDC , FC, FERV& Hedging			
13	Capital Cost inci. IDC,FC,FERV&			
<b>B16</b>	<b>Substations</b>	<b>Construction of 02 nos. 132KV Line bays each at 132/33KV Grid-Substation</b>		
4	Preliminary works & land			
4.1	Desgin & Engineering			
4.2	Land			
4.3	Site preparation			
	Total Preliminary works & land			
5	Civil Works			
5.1	Control Room & Office Building			
5.2	Township & Colony			
5.3	Roads and Drainage			
5.4	Foundation for structures			
5.5	Misc. Civil Works			
	Total Civil Works			
6	Substation Equipments			
6.1	Switchgear (CT,PT,Circuit Breaker,			
6.2	Transformers			
6.3	Compensating Equipment(Reactor,			
6.4	CONTROL, Relay&			
6.5	PLCC			
6.6	HVDC package			
6.7	Bus Bars /conductors/Insulators			
6.8	Outdoor lighting			
6.9	Emergency D.Gset			
6.1	Grounding System			
6.1	Structure for switchyard			
	Total Substation Equipment			
7	Spares			
8	Taxes and Duties			
9	Construction and pre -			
9.1	Site supervision & site admn.etc			
9.2	Tools and Plants			
9.3	construction Insurance			
	Total Construction and pre			
10	Overheads			
10	Establishment			
10	Audit& Accounts			
10	Contingency			
	Total Overheads			



11	Total Cost	14.83 Cr	NIL	N/A	Tender under Progress
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
B17	Substations	Construction of 220/132/33 KV GSS, Raxaul against NIT No.40/PR/BSPTCL/2018	NA	NA	NA
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	934900000	NA	NA	NA
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
B18	Substations	Construction of (2x500+2x160) MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis against NIT No. 73/PR/BSPTCL/2018.			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				

6.4	CONTROL, Relay&			
6.5	PLCC			
6.6	HVDC package			
6.7	Bus Bars /conductors/Insulators			
6.8	Outdoor lighting			
6.9	Emergency D.Gset			
6.1	Grounding System			
6.1	Structure for switchyard			
	Total Substation Equipment			
7	Spares			
8	Taxes and Duties			
9	Construction and pre -			
9.1	Site supervision & site admn.etc			
9.2	Tools and Plants			
9.3	construction Insurance			
	Total Construction and pre			
10	Overheads			
10	Establishment			
10	Audit& Accounts			
10	Contingency			
	Total Overheads			
11	Total Cost	2500000001		
12	IDC,FC,FERV& Hedging Cost			
12	Interest During Construction(IDC)			
12	Foreign Exchange Rate Variation			
12	Hedging Cost			
	Total of IDC , FC, FERV& Hedging			
13	Capital Cost inci. IDC,FC,FERV&			
11	Total Cost	3,63,72,501	3,63,72,501	0
12	IDC,FC,FERV& Hedging Cost			
12	Interest During Construction(IDC)			
12	Foreign Exchange Rate Variation			
12	Hedging Cost			
	Total of IDC , FC, FERV& Hedging			
13	Capital Cost inci. IDC,FC,FERV&			
<b>B19</b>	<b>Substations</b>	<b>Construction of 132/33KV GSS Benipur (2x10 MVA) against NIT</b>		
4	Preliminary works & land			
4.1	Desgin & Engineering			
4.2	Land			
4.3	Site preparation			
	Total Preliminary works & land			
5	Civil Works			
5.1	Control Room & Office Building			
5.2	Township & Colony			
5.3	Roads and Drainage			
5.4	Foundation for structures			
5.5	Misc. Civil Works			
	Total Civil Works			
6	Substation Equipments			
6.1	Switchgear (CT,PT,Circuit Breaker,			
6.2	Transformers			
6.3	Compensating Equipment(Reactor,			
6.4	CONTROL, Relay&			
6.5	PLCC			
6.6	HVDC package			
6.7	Bus Bars /conductors/Insulators			
6.8	Outdoor lighting			
6.9	Emergency D.Gset			
6.1	Grounding System			
6.1	Structure for switchyard			
	Total Substation Equipment			
7	Spares			
8	Taxes and Duties			
9	Construction and pre -			
9.1	Site supervision & site admn.etc			
9.2	Tools and Plants			
9.3	construction Insurance			
	Total Construction and pre			
10	Overheads			
10	Establishment			
10	Audit& Accounts			
10	Contingency			
	Total Overheads			
11	Total Cost	18,61,56,400	18,61,56,400	0
12	IDC,FC,FERV& Hedging Cost			
12	Interest During Construction(IDC)			

12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B20</b>	<b>Substations</b>	<b>Construction of 132/33 KV Grid Sub-station Shahpur Patori</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	18,58,56,400	18,58,56,400		0
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B21</b>	<b>Substations</b>	<b>2 x160+2x50 MVA,220/132/33KV GSS Samastipur(New)NIT No.-</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				

9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	74,68,59,784	74,68,59,784	0	
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B22</b>	<b>Substations</b>	<b>Construction of 02 nos. 132KV line bays at 132/33KV Grid Sub station</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	3,88,56,350	3,51,50,098	37,06,252	Quantity variation
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B23</b>	<b>Substations</b>	<b>Construction of 08 nos. 132 KV Line bays under Trans.Circle, Muzaffarpur</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				

6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	12,56,89,284	12,56,89,284	0	
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				

<b>B22</b>	<b>Substations</b>	<b>Construction of (2x50 MVA) 132/33 KV GSS, Palasi (District-Araria)</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	39.8 Cr	NIL	NA	NA
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				

<b>B22</b>	<b>Substations</b>	<b>Construction of 2 x160+3x50 MVA GSS Musahari(New)</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				

4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	73.96	87.49	13.53	Earth mat, GI Flats , Lighting Fixtures etc.
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B23</b>	<b>Substations</b>	<b>Construction of 220 /132 /33 kV Motipur GSS</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				

10	Contingency				
	Total Overheads				
11	Total Cost	69.54	75.79	6.25	Addition al scope of work, Lattice structre , CVT etc.
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B24</b>	<b>Substations</b>	<b>Construction of 2 x160+2x50 MVA ,220/132/33KV GSS Laukahi</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	60.31	67.02	6.71	Lattice Structure, 40 mm MS rod, 132 KV XLPE Cable and its accessori es etc.
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B25</b>	<b>Substations</b>	<b>Construction of (2x160MVA+3x50MVA) 220/132/33 KV GSS, Tajpur(with</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				

	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost		92.55	Yet to be awarded	
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B-1</b>	<b>Substations</b>			<b>Construction of 3X50 MVA, 132/33kV Grid Sub-Station, Nathnagar</b>	
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	57.03 (with Entry Tax)		57.03 (with Entry Tax)	0
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				



13	Capital Cost inci. IDC,FC,FERV&				
<b>B.</b>	<b>Substations</b>	<b>Construction of 01 no. of 33KV line bay at GSS Raxaul for 33/11 KV PSS</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	.57 Cr.	0	0	
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B.</b>	<b>Substations</b>	<b>Construction of line bay at (i)GSS Kishanganj (New) aginst NIT (ii)</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				

10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	10.77Cr.	NIL	N/A	N/A
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B.</b>	<b>Substations</b>	<b>Construction of 03 Nos of 132/33 KV Transformer Bays in Biharsharif &amp;</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	8.8Cr.	NIL	N/A	N/A
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B.</b>	<b>Substations</b>	<b>Construction of 04 Nos of 132/33 KV Transformer Bays in Saran, Kosi &amp;</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				

6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	11.73Cr.	NIL	N/A	N/A
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>B.</b>	<b>Substations</b>	<b>Construction of 05 Nos of 132/33 KV Transformer Bays in Gaya</b>			
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1	Grounding System				
6.1	Structure for switchyard				
	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	14.66Cr.	NIL	N/A	N/A
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
<b>A-4</b>	<b>GSS</b>	<b>Construction of 220/132/33 KV (2X160+3X50MVA) GSS at Garaul (Dist. Vaishali) on</b>			



Section 1: General Information														Section 2: Financial Data														Section 3: Operational Metrics													
Item ID	Description	Category	Unit	Quantity	Unit Price	Total Price	Tax	Net Price	Discount	Final Price	Revenue	Cost	Profit	Margin	Volume	Value	Weight	Volume	Value	Weight	Volume	Value	Weight	Volume	Value	Weight															
001	Item 1 Description	Category 1	Unit 1	100	10.00	1000.00	100.00	900.00	50.00	850.00	1000.00	500.00	500.00	50%	100	1000.00	100	100	1000.00	100	100	1000.00	100	1000.00	100	1000.00	100	1000.00													
002	Item 2 Description	Category 2	Unit 2	200	5.00	1000.00	200.00	800.00	100.00	700.00	2000.00	1000.00	1000.00	50%	200	2000.00	200	200	2000.00	200	200	2000.00	200	2000.00	200	2000.00	200	2000.00													
003	Item 3 Description	Category 3	Unit 3	300	3.33	1000.00	300.00	700.00	150.00	550.00	3000.00	1500.00	1500.00	50%	300	3000.00	300	300	3000.00	300	300	3000.00	300	3000.00	300	3000.00	300	3000.00													
004	Item 4 Description	Category 4	Unit 4	400	2.50	1000.00	400.00	600.00	200.00	400.00	4000.00	2000.00	2000.00	50%	400	4000.00	400	400	4000.00	400	400	4000.00	400	4000.00	400	4000.00	400	4000.00													
005	Item 5 Description	Category 5	Unit 5	500	2.00	1000.00	500.00	500.00	300.00	200.00	5000.00	2500.00	2500.00	50%	500	5000.00	500	500	5000.00	500	500	5000.00	500	5000.00	500	5000.00	500	5000.00													
006	Item 6 Description	Category 6	Unit 6	600	1.67	1000.00	600.00	400.00	250.00	150.00	6000.00	3000.00	3000.00	50%	600	6000.00	600	600	6000.00	600	600	6000.00	600	6000.00	600	6000.00	600	6000.00													
007	Item 7 Description	Category 7	Unit 7	700	1.43	1000.00	700.00	300.00	175.00	100.00	7000.00	3500.00	3500.00	50%	700	7000.00	700	700	7000.00	700	700	7000.00	700	7000.00	700	7000.00	700	7000.00													
008	Item 8 Description	Category 8	Unit 8	800	1.25	1000.00	800.00	200.00	125.00	75.00	8000.00	4000.00	4000.00	50%	800	8000.00	800	800	8000.00	800	800	8000.00	800	8000.00	800	8000.00	800	8000.00													
009	Item 9 Description	Category 9	Unit 9	900	1.11	1000.00	900.00	100.00	75.00	50.00	9000.00	4500.00	4500.00	50%	900	9000.00	900	900	9000.00	900	900	9000.00	900	9000.00	900	9000.00	900	9000.00													
010	Item 10 Description	Category 10	Unit 10	1000	1.00	1000.00	1000.00	0.00	50.00	25.00	10000.00	5000.00	5000.00	50%	1000	10000.00	1000	1000	10000.00	1000	1000	10000.00	1000	10000.00	1000	10000.00	1000	10000.00													





**#REF!**

**(k) Statement of Additional Capitalization**

**Form No: F5**

Rs. Crores

No	Year	Work/ Equipment proposed to be added after COD up to Cut off Date/ Beyond Cut off Date	Amount capitalised and Proposed to be capitalised	Justification	Regulations under which covered	Admitted Cost <sup>1</sup>
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						

**Note:**

- 1 Fill the form in chronological order year wise along with detailed justification clearly bring out the necessity and the benefits accruing to the beneficiaries.
- 2 In case initial spares are purchased alongwith any equipment, then the cost of such spares should be indicated separately.

Signature of Petitioner



**Name of Transmission Licensee****(I) Statement of Capital Works in Progress****Form No: F5**

Rs. Crores

	Particulars	Previous Year		Current Year (i. e. RE)	Ensuing years (Projection)			
		Approved in MYT/RE	Actual		FY (n+1)	FY (n+2)	FY (n+3)	
A	a	Opening Capital Expenditure(CWIP)	3128.38	3114.83	2973.15	3842.92	5473.62	4435.08
	b	Amount of IDC, FC, FERV & Hedging cost included in a above						
B	a	Addition/Adjustment in Capital Expenditure(CWIP) during the period	2025.1	1114.22	3552.73	2893.55	951.91	134.44
	b	Amount of IDC, FC, FERV & Hedging cost included in a above						
C	a	Capitalization/Transfer to Gross Fixed asset during the period	3044.3	1255.9	2682.96	1262.85	1990.45	1596.37
	b	Amount of IDC, FC, FERV & Hedging cost included in a above						
D	a	Closing Capital Expenditure(CWIP)	2109.18	2973.15	3842.92	5473.62	4435.08	2973.15
	b	Amount of IDC, FC, FERV & Hedging cost included in a above						

**(m) Capital Work-In-Progress (CWIP)****((Rs. Crores))**

S.N	Particulars	Previous year (Actuals)			Current year (RE)			Ensuing year (s) (Projections)		
		Loan	Grant	Equity	Loan	Grant	Equity	Loan	Grant	Equity
1	Opening CWIP	109.47	116.71	2888.65	Regulatory Account for the purpose of calculation of Normative Loan , Equity etc as per prescribed regulation is under progress					
2	New Investment	413.99	50.71	649.31						
3	Less Capitalization(a+b)	19.46		1236.22						
	a) CWIP Capitalization									
	b) New Investment capitalization									
4	Closing CWIP (1+2-3)	<b>504</b>	<b>167.42</b>	<b>2301.74</b>						

**Name of Transmission Licensee****Normative Parameters Considered for Tariff Computations****Form No: F6**

	Particulars		Previous Year		Current Year (i. e. RE)	Ensuing years (Projection)		
			Approved in MYT/RE	Actual		FY (n+1)	FY (n+2)	FY (n+3)
1	Target Availability	%		99.134%	98	98	98	98
	AC System	%		NA	NA	NA	NA	NA
	HVDC bi-pole links	%		NA	NA	NA	NA	NA
	HVDC back-to-back Stations	%		NA	NA	NA	NA	NA
2	Normative O&M per ckt.km, if any	Rs. Crores		NA	NA	NA	NA	NA
3	Normative O&M per bay, if any	Rs. Crores		NA	NA	NA	NA	NA
4	Normative A&G expenses per ckt.km, if any	Rs. Crores		NA	NA	NA	NA	NA
5	Normative A&G per bay, if any	Rs. Crores		NA	NA	NA	NA	NA
6	Normative R&M expenses	% of GFA		NA	NA	NA	NA	NA
7	Maintenance Spares for Working Capital, if any	% of O&M		NA	NA	NA	NA	NA
8	Receivebles for Working Capital	in Months		NA	NA	NA	NA	NA
9	Effective Rate of Return on Equity	%	19.76%	19.76%	19.76%	19.76%	19.76%	19.76%
10	Base Rate of Reserve Bank as on _____	%						
11	State Bank one-year 'MCLR' as on _____	%	9.10%	9.10%	8.45%	8.45%	8.45%	8.45%
12	Bank Rate as on _____	%						

**Name of Transmission Licensee**

		Previous Year		Current Year (i. e. RE)	Ensuuing years (Projection)		
Particulars		Approved in MYT/RE	Actual		FY (n+1)	FY (n+2)	FY (n+3)
A	<b>Gross Fixed Assets ( as at beginning of the year):</b>	Regulatory Account for the purpose of calculation of Normative Loan , Equity etc as per prescribed regulation is under progress					
	1.GFA as per (Financial/Statutory Account)						
	2.Expenditure allowed but not capitalized in Financial/Statutory Account						
	3.Expenditure Capitalized in Financial/Statutory Account but not allowed.						
	<b>4. Admitted GFA(1+2-3)</b>						
B	<b>Addition/ adjustment to Gross Fixed Assets (During the year):</b>						
	5.Expenditure capitalized in Financial/Statutory Account						
	6.Expenditure allowed but not capitalized in Financial/Statutory Account						
	7.Expenditure Capitalized in Financial/Statutory Account but not allowed.						
C	Gross Fixed Assets (as at end of the year) Admitted by the commisson( 4+5+6-7)						

**Signature of Petitioner**

## (b) Gross Fixed Assets (GFA) (Information to be supplied for the previous year (actuals), current year (RE) and the ensuing year (s) (projections) (Rs. in Cr.)

S.N	Particulars(i.e Assets Group)	GFA at the beginning of the year					Addition to GFA during the year					Adjustment to GFA on account of assets sold/discarded etc					GFA at the end of the year				
		Consumer Contribution	By grants	Loan	Equity	Total	Consumer Contribution	By grants	Loan	Equity	Total	Consumer Contribution	By grants	Loan	Equity	Total	Consumer Contribution	By grants	Loan	Equity	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			
1	Land and land rights		36.44		1,355.71	1,392.15				13.14	13.14				-	36.44	-	1,368.85	1,405.29		
2	Buildings		24.03		11.11	35.14					-				-	24.03	-	11.11	35.14		
3	Hydraulic works				-	-															
4	Other civil works		121.56		69.57	191.13				0.16	0.16				-	121.56	-	69.73	191.29		
5	Plant and Machinery		626.25	45.00	760.13	1,431.38			29.00	467.57	496.57				-	626.25	74.00	1,227.70	1,927.95		
6	Lines and cable network		357.79		609.18	966.97				879.03	879.03				-	357.79	-	1,488.21	1,846.00		
7	Vehicles				-	-									-	-	-	-	-		
8	Furniture and Fixtures				3.08	3.08				1.03	1.03				-	-	-	4.11	4.11		
9	Office equipment				0.98	0.98				1.37	1.37				-	-	-	2.35	2.35		
10	Others, if any (pl. specify)														-	-	-	-	-		
	<b>Total</b>		<b>1,166.07</b>	<b>45.00</b>	<b>2,809.76</b>	<b>4,020.83</b>			<b>29.00</b>	<b>1,362.30</b>	<b>1,391.30</b>					<b>1,166.07</b>	<b>74.00</b>	<b>4,172.06</b>	<b>5,412.13</b>		

S.N	Particulars	Previous	Actual	Current Year (RE)	Ensuing years		
		Approved in MVT/RE					
1	Opening Gross Fixed Assets	5026.7	4994.31	6,385.61	9144.31	10407.16	12397.61
a	Additions in Gross Fixed Assets	3077.24	1,391.30	2758.7	1262.85	1990.45	1596.37
b	Amount of IDC, FC, FERV & Hedging cost included in B(a) above	32.94	5.57	75.74	0	0	0
c	Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a)						
d	Add/(Less):Adjustment for assets sold/discarded etc						
2	Closing Gross Fixed Assets	8103.94	6,385.61	9144.31	10407.16	12397.61	13993.98

Working for Equity  
2017-18

1	Gross fixed assets of the beginning of the year	3634.54	4994.31	6385.61	9144.31	10407.16	12397.61
	Less: Value of non depreciable assets (i.e land)	0	1,392.15	1,405.29	1,679.89	1,679.89	1,679.89
2	Additions during the year	3044.3	1,391.30	2758.7	1262.85	1990.45	1596.37
	Less: Value of non depreciable assets (i.e land)	0	13.14	274.6	0	0	0
3(i)	IDC, FC, FERV & Hedging cost	32.94	5.57	75.74	0	0	0
3(ii)	Amount of IEDC	0					
4	Adjustment for assets sold/discarded etc	0					
5	Closing GFA	6711.78	4,980.32	7,464.42	8,727.27	10,717.72	12,314.09
6	Average GFA (Excluding Value of non depreciable assets)	5173.16	4291.24	6222.37	8095.845	9722.495	11515.905
7	Weighted Average Rate of Depreciation	5.11%	5.52%	5.28%	5.28%	5.28%	5.28%
8	Gross Depreciation	264.35	236.80	328.54	427.46	513.35	608.04
9	Opening grants*	1636.04	1636.04	1856.4	1856.4	1856.4	1856.4
10	Grants* during the year	17.16	220.36	0	0	0	0
11	Adjustment for assets sold/discarded etc						
12	Total Grants*	1653.2	1856.4	1856.4	1856.4	1856.4	1856.4
13	Average Grants*	1644.62	1746.22	1856.4	1856.4	1856.4	1856.4
14	Weighted Average rate of Depreciation	5.11%	3.92%	5.28%	5.28%	5.28%	5.28%
15	Depreciation for GFA on Grants	84.04	68.49	98.02	98.02	98.02	98.02
16	Net Depreciation of GFA(8-15)	180.31	168.31	230.52	329.44	415.33	510.02

\*grants includes consumer contributions.

**Name of Transmission Licensee**

**(c) Value of Depreciation Charges (Rs. Crores)**

Form No: 7

S.N	Particulars(i.e Assets Group)	Accumulated depreciation at the beginning of the year					Depreciation charges during the year (2017-18)					Accumulated depreciation adjustment on account of assets sold/discarded etc					Accumulated depreciation at the end of the year				
		Consumer Contribution	By grants	Loan	Equity	Total	Consumer Contribution	By grants	Loan	Equity	Total	Consumer Contribution	By grants	Loan	Equity	Total	Consumer Contribution	By grants	Loan	Equity	Total
1	2	3	4	5	6		8	9	10	11		12	13	14	15		16	17	18	19	
1	Land and land rights																				
2	Buildings		0.89		1.09	1.98		0.89		1.09	1.98						0	1.78	0	2.18	3.96
3	Hydraulic works				0						0						0	0	0	0	0
4	Other civil works		4.51		1.67	6.18		4.51		2.74	7.25						0	9.02	0	4.41	13.43
5	Plant and Machinery		39.29	2.376	42.094	83.76		39.29	3.91	76.71	119.91						0	78.58	6.2832	118.8068	203.67
6	Lines and cable network		22.45		44.38	66.83		22.45		84.85	107.3						0	44.9	0	129.23	174.13
7	Vehicles				0						0						0	0	0	0	0
8	Furniture and Fixtures				0.19	0.19				0.26	0.26						0	0	0	0.45	0.45
9	Office equipment				0.11	0.11				0.1	0.1						0	0	0	0.21	0.21
10	Others, if any (pl. specify)										0						0	0	0	0	0
	<b>Total</b>		<b>67.14</b>	<b>2.376</b>	<b>89.534</b>	<b>159.05</b>		<b>67.14</b>	<b>3.91</b>	<b>165.75</b>	<b>236.80</b>						<b>-</b>	<b>134.28</b>	<b>6.28</b>	<b>255.29</b>	<b>395.85</b>

**Name of Transmission Licensee****(d) Statement of Assets Not in Use****Form No: F7**

NOT APPLICABLE

Rs. Crores

<b>Financial Year*</b>					
<b>Sl. No.</b>	<b>Date of Acquisition/Installation</b>	<b>Historical Cost/Cost of Acquisition</b>	<b>Date of withdrawal operations</b>	<b>Accumulated Depreciation on date of withdrawal</b>	<b>Written down value on date of withdrawal</b>
NIL					

**\*Note:- Information to be provided for Previous Year, Current Year & Ensuing Control Period**

**Signature of Petitioner**

**Name of Transmission Licensee**

e

**User contributions and grants towards cost of capital assets (Rs. Crores)**

Form No: F8

	Particulars	Previous Year			Current Year		Ensuing Year/years		Ensuing Year/years		Ensuing Year/years	
		Balance at the start of the year	Additions	Balance at the end of the Year	Additions	Balance at the end of the Year	Additions	Balance at the end of the Year	Additions	Balance at the end of the Year	Additions	Balance at the end of the Year
1	User contributions Towards Cost Of Capital Assets											
2	Grant Towards Cost Of Capital Assets	1401.47	220.36	1621.83	0.00	1621.83	0.00	1621.83	0.00	1621.83	0.00	1621.83
<b>A</b>	<b>Total (1+2)</b>	<b>1401.47</b>	<b>220.36</b>	<b>1621.83</b>	<b>0.00</b>	<b>1621.83</b>	<b>0.00</b>	<b>1621.83</b>	<b>0.00</b>	<b>1621.83</b>	<b>0.00</b>	<b>1621.83</b>
<b>forming part of Depreciable GFA</b>												
3	User contributions Towards Cost Of Capital Assets			0.00								
4	Grant Towards Cost Of Capital Assets	1345.43	0.00	1345.43	0.00	1345.43	0.00	1345.43	0.00	1345.43	0.00	1345.43
<b>B</b>	<b>Total (3+4)</b>	<b>1345.43</b>	<b>0.00</b>	<b>1345.43</b>	<b>0.00</b>	<b>1345.43</b>	<b>0.00</b>	<b>1345.43</b>	<b>0.00</b>	<b>1345.43</b>	<b>0.00</b>	<b>1345.43</b>
<b>forming part of non-Depreciable GFA</b>												
5	User contributions Towards Cost Of Capital Assets			0.00								
6	Grant Towards Cost Of Capital Assets											
<b>C</b>	<b>Total (5+6)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Assets un-utilized (A-B-C)</b>												
7	User contributions Towards Cost Of Capital Assets			0.00								
8	Grant Towards Cost Of Capital Assets	56.04	220.36	276.40	0.00	276.40	0.00	276.40	0.00	276.40	0.00	276.40
<b>C</b>	<b>Total (7+8)</b>	<b>56.04</b>	<b>220.36</b>	<b>276.40</b>	<b>0.00</b>	<b>276.40</b>	<b>0.00</b>	<b>276.40</b>	<b>0.00</b>	<b>276.40</b>	<b>0.00</b>	<b>276.40</b>
D	Amount utilized for CWIP out of "C" above											
E	Amount kept in Bank out of "C" above											
F	Depreciation on assets created out of grants (Admitted)	84.04										
G	Depreciation on assets created out of grants (Financial/Statutory Account)	68.49										

wise a reconciliation statement must be accompanied.



## (e) Statement of Reconciliation of Net Actual Loan ( opening ) with Net Normative Loan ( Opening ) (Rs. In Crore)

Particulars		Previous year	Current year (RE)	Ensuing Years		
				FY (n+1)	FY (n+2)	FY (n+3)
Net Actual Loan as per Books of Accounts as on :						
	Dometic	566.28	1373.74	3688.58	4450.11	4557.66
	Foreign					
Add: Repayment Made till Date						
Gross Actual Loan						
Add: Equity considered as normative loan						
Gross Normative Loan		566.28	1373.74	3688.58	4450.11	4557.66
Less : Depreciation Recovered as per ARR till Date						
Net Normative Loan		566.28	1373.74	3688.58	4450.11	4557.66
			807.46	2314.84	761.53	107.55

340.55225.73 **496.67** **52.15**536.52270.9428.44956.335**ADB Loan Addition in 2018-19**1217.6 **608.81** **63.925**722.4 **361.2** **37.926**



Name of Transmission Licensee

(d) Domestic loans, bonds and financial leasing

Form No: F9

Rs. Crores

Sl. No.	Particulars	Opening Balance at the beginning of the year				Amount received during the year	Principal repayment		Interest			Closing Balance	
		Principal not overdue	Principal overdue	Interest overdue	Total		Due	Paid	Due	Paid	%	Principal	Interest Overdue
<b>A</b>	<b>LONG-TERM</b>												
1	BSPHCL - ADB	193.37		22.75	216.12	32.36			132.60		13.00	225.73	155.35
2	State Govt	340.55		84.16	424.71				31.43		10.50	340.55	115.59
	<b>Sub Total (A)</b>	<b>533.92</b>	<b>0.00</b>	<b>106.91</b>	<b>640.83</b>	<b>32.36</b>	<b>0.00</b>	<b>0.00</b>	<b>164.03</b>	<b>0.00</b>		<b>566.28</b>	<b>270.94</b>
<b>B</b>	<b>SHORT-TERM</b>												
1													
2													
3													
4													
	<b>Sub Total (A)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		<b>0.00</b>	<b>0.00</b>
	<b>Total (A+B)</b>	<b>533.92</b>	<b>0.00</b>	<b>106.91</b>	<b>640.83</b>	<b>32.36</b>	<b>0.00</b>	<b>0.00</b>	<b>164.03</b>	<b>0.00</b>		<b>566.28</b>	<b>270.94</b>

\*Note:- Loanwise information to be provided for Previous Year, Current Year & Control period. Also indicate rate of interest and other conditions.

Signature of Petitioner

Name of Transmission Licensee

Form No: F9

(e) Statement of Reconciliation of Net Actual Loan ( opening ) with Net Normative Loan ( Opening ) (Rs. In Crore)

Particulars		Previous year	Current year (RE)	Ensuing Years		
				FY (n+1)	FY (n+2)	FY (n+3)
Net Actual Loan as per Books of Accounts as on :						
	Dometic	566.28	1373.74	3688.58	4450.11	4557.66
	Foreign					
Add: Repayment Made till Date						
Gross Actual Loan						
Add: Equity considered as normative loan						
Gross Normative Loan		566.28	1373.74	3688.58	4450.11	4557.66
Less : Depreciation Recovered as per ARR till Date						
Net Normative Loan		566.28	1373.74	3688.58	4450.11	4557.66

**Name of Transmission Licensee**
**Details of Equity**
**Form No: F10**

## Details of Foreign Equity

Rs. Crores

S.No.	Particulars	Previous Year			Current Year (i. e. RE)			Ensuing years (Projection)					
		Date	Amount (Foreign Currency)	Exchange Rate	Amount in Indian Rupee	Date	Amount (Foreign Currency)	Exchange Rate	Amount in Indian Rupee	Date	Amount (Foreign Currency)	Exchange Rate	Amount in Indian Rupee
	Currency <sup>1</sup>	Not Applicable											
	<b>Total</b>												

<sup>1</sup> Name of the currency to be mentioned e.g. US \$, etc.

<sup>2</sup> In case of equity infusion more than once during the year, Exchange rate at the date of each infusion to be provided

## Details of Indian Equity

Rs. Crores

S.No.	Particulars	Previous Year		Current Year (i. e. RE)		Ensuing years (Projection)		Ensuing years (Projection)		Ensuing years (Projection)	
		Date	Amount	Date	Amount	Date	Amount	Date	Amount	Date	Amount
1	Infusion		541.21		536.59		252.57		398.09		319.27
2	-										
3	-										
	<b>Total</b>										

## Details of Return on equity

Rs. Crores

1	Amount of total asset created during the year		1804.0333		2682.95		1262.85		1990.45		1596.35
2	Less asset created from grant		0		0		0		0		0
3	Less asset created from users contribution		0		0		0		0		0
4	Net asset Created		1804.0333		2682.95		1262.85		1990.45		1596.35
5	Amount of equity addition		541.21		536.59		252.57		398.09		319.27
6	Equity (Opening Balance)		321.22		862.43		1399.02		1651.59		2049.68
7	Equity (Closing Balance)		862.43		1399.02		1651.59		2049.68		2368.95
8	Average Equity		591.825		1130.725		1525.305		1850.635		2209.315
9	Base rate of Return on Equity%		15.50%		15.50%		15.50%		15.50%		15.50%
	Tax Rate ( Enclose detailed calculation alongwith supporting documents)%		21.55%		21.55%		21.55%		21.55%		21.55%
	Effective Rate of Return on Equity		19.76%		19.76%		19.76%		19.76%		19.76%
10	Retrun o Equity (Rs. In crore)		116.94		223.43		301.40		365.69		436.56
11	Equity entitled to incentive										
12	Incentive		11.55								
13	Additional Return		52.56		52.56		52.56		52.56		52.56
14	<b>Total Return on Equity</b>		<b>181.05</b>		<b>275.99</b>		<b>353.96</b>		<b>418.25</b>		<b>489.12</b>

**Name of Transmission Licensee**

**Interest and Finance Charges(Rs. Crores)**

Form No: F11

S.N.	Source of loan	Purpose of loan	Previous year (Actuals)	Current year (RE)	Ensuing year (s)	Ensuing year (s)	Ensuing year (s)
1	2	3	4	5	6	7	8
1	SLR Bonds						
2	Non SLR Bonds						
3	LIC						
4	REC						
5	PFC						
6	Commercial Banks	Construction of New GSS, BAY & Line		63.93	213.62	375.13	420.76
7	Bills discounting						
8	Lease rental						
9	ADB Loan	Construction of New GSS, BAY & Line	11.27	37.92	52.15	52.15	52.15
10	Total		11.27	101.85	265.77	427.28	472.91
11	Add: State Govt. Loan	Construction of New GSS, BAY & Line	31.42				
12	Total (10 +11)		42.69	101.85	265.77	427.28	472.91
13	Less IDC		5.57				
14	Net Interest		48.26	101.85	265.77	427.28	472.91
15	Add prior period adjustment *						
16	Total Interest		48.26	101.85	265.77	427.28	472.91
17	Finance charges		0.01	0	0	0	0
18	Total Interest and finance charges		48.27	101.85	265.77	427.28	472.91

\* Year-wise details should be submitted with documentary evidence. Further Rate of interest of various loans to be indicated in a separate sheet.

Further Details in case of Foreign Loans

Particulars	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Note: Drawal of debt and equity shall be on paripassu basis to meet the commissioning schedule. Drawal of higher equity in the beginning is permissible. Also specify basis of allocation to particular project.
<b>1 Loans</b>				
<b>1.1 Foreign Loans</b>				
1.1.1 Foreign Loan 1				
Draw down Amount				
IDC				
Financing charges				
1.1.2 Foreign Loan 2				
- -				
- -				
<b>Total Draw down Amount</b>				
<b>Total IDC</b>				
<b>Total Financing charges</b>				

**Interest (IDC) Capitalized**

S.N.	Name of scheme /Project	Source of loan	Interest capitalized			
			As on beginning of previous year	During Previous year (Actuals)	During Current year (RE)	During ensuing year (s)
1	2	3	4	5	6	
1	ADB	State Govt	10.72	5.57	75.74	0
2						

**Name of Transmission Licensee****Lease details(Rs. Crores)**

Form No: F12

S.N	Name of Lesser	Assets		Leased	Lease Rentals	Primary Period	Secondary
		Descriptions	Gross Amount	on		ended / ending by	period ending by
1	2	3	4	5	6	7	8
<b>Not Applicable</b>							

Note: Statement showing Cost benefits analysis of lease must be accompanied.

**Name of Transmission Licensee****Operations & Maintenance Cost****Form No: F13****Rs. Crores**

Sl.No	Particulars	Previous Year		Current Year (i. e. RE)	Ensuing years (Projection)		
		Approved in MYT/RE	Actual		FY (n+1)	FY (n+2)	FY (n+3)
1	Repair & Maintenance Expenses	48.46	32.69	159.64	228.61	260.18	309.94
2	Employee Expenses	102.36	140.74	142.95	148.79	154.73	160.90
3	Administrative and General Expenses	18.45	26.09	35.87	37.30	38.79	40.34
4	Holding Expenses	5.15	10.29	10.70	11.13	11.57	12.03
	Less :						
5	Expenses Capitalized	0.00	-	-	-	-	-
	<b>Net O&amp;M Expenses</b>	<b>174.42</b>	<b>209.81</b>	<b>349.16</b>	<b>425.83</b>	<b>465.27</b>	<b>523.21</b>

Signature of Petitioner



## (a) Employee Expenses

Form No:F14

Rs. Crores

S.N	Particulars	Previous Year		Current Year(RE)	Ensuing Year 2019-20	Ensuing Year 2020-21	Ensuing Year 2021-22
		Approved in MYT/RE	Actual				
1	<b>Salaries &amp; Allowances</b>						
(i)	Existing Employees	102.36	109.81	111.53	116.09	120.72	125.54
(ii)	New Employees	0					
(ii)	Total	102.36	109.81	111.53	116.09	120.72	125.54
2	<b>Contribution to Terminal Benefits (Accrual Basis)</b>		30.9331345	31.42	32.70	34.01	35.36
3	Total of Salary & Allowances and Terminal Benefits						
4	Amount Capitalised						
5	Net Amount						
6	Grand Total	102.36	140.74	142.95	148.79	154.73	160.9

**Note:**

(i) Terminal benefits paid for the period before the date of reorganisation i.e. 01.11.2012, shall not be considered.

(ii) In respect of continuing employees as on the date of reorganisation and newly appointed employees after re-organisation date the terminal benefits shall be allowed.

(iii) In respect of item 6, a brief description to be appended.

**Name of Transmission Licensee**

Parameter	FY 2015-16	FY 2016-17	FY 2017-18
Average Annual CPI Index (Mar 31)	126	130.9	136.5
Average Annual WPI Index (Mar 31)	107.7	113.2	116.3
Indexed (60: 40)	115.02	120.28	124.38
Increase		4.60%	3.40%
Average Increase			3.99%

**Note**

CPI and WPI Inflation computed for current year shall be considered for control period at the time of filing of ARR. CPI inflation shall be determined at the time of truing up.

Signature of Petitioner

## (c) Employee Strength

S.N	Particulars	Previous year (Actuals)	Current Year (R.E)	Ensuring Years (Projection)		
		2017-18	2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6	7
1	Number of employees at the beginning of FY					
(a)	Technical	1491	1707	1823	2194	2721
(b)	Non Technical (Administration)	122	126	134	264	395
(c)	Non Technical(Revenue, Finance and Accounts )	85	86	103	131	159
	Total	1698	1919	2060	2589	3275
2	No.of employees added during FY					
(a)	Technical	281	167	425	586	420
(b)	Non Technical (Administration)	9	13	131	131	67
(c)	Non Technical(Revenue, Finance and Accounts )	1	18	28	28	13
	Total	291	198	584	745	500
3	Number of employees retiring/ leaving during the FY					
(a)	Technical	65	51	54	59	65
(b)	Non Technical (Administration)	5	5	1	0	2
(c)	Non Technical(Revenue, Finance and Accounts )	0	1	0	0	0
	Total	70	57	57	59	67
4	Number of employees at the end of the FY( 1+2-3)					
(a)	Technical	1707	1823	2194	2721	3076
(b)	Non Technical (Administration)	126	134	264	395	460
(c)	Non Technical(Revenue, Finance and Accounts )	86	103	131	159	172
	Total	1919	2060	2589	3275	3708

\* Pertaining to Transmission Business Only , SLDC shall file separately

S.N	Particulars	Previous year		Current	Ensuing		
		Approved in MYT/RE	(Actuals)	Year (R.E)	years		
				2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8
1	Number of employees		1919	2060	2589	3275	3708
2	Number of Sub-stations		137	154	156	161	165
3	Total capacity of Substations (MVA)		18900	21400	22170	25710	27390
4	Transmission line length in ckt/km		14137.764	16023.54	16999.54	17645.54	17645.54
5	Energy Received at STU- CTU interface (Units)		26760458352	32185478396	33263878128	37143325306	41439660769
6	Employees per MU of energy handled (5/1)		13945001.75	15624018.64	12848156.87	11341473.38	11175744.54
7	Employees cost (CRORE)	102.36	140.74	142.95	148.79	154.73	160.9
8	Employees cost in paise/ KWH(7/5)		5.25925222	4.441444003	4.473020236	4.165755185	3.882753792

**R&M Expenses**

Form No: F15

Rs. Crores

	Particulars	Previous Year		Current Year (i. e. RE)	Ensuing years (Projection)		
		*Normative/Approved in MYT/RE	Actual	FY (n)	FY (n+1)	FY (n+2)	FY (n+3)
1	Opening Gross Fixed Assets	3634.54	3634.54	6385.61	9144.31	10407.16	12397.61
2	Percentage point as per the norm (%)			2.50	2.50	2.50	2.50
3	Repair & Maintenance Expenses	48.46	32.69	159.64	228.61	260.18	309.94

\*Normative/Approved in MYT/RE: If norms are specified by the Commission for concern year, Normative figures shall be given. In case norms are not specified latest approved figures in MYT or Revised Estimate (RE) as the case may be shall be given.

**Further details of component wise R&M Expenses**

	Particulars	Previous Year		Current Year (i. e. RE)	Ensuing years (Projection)		
		*Normative/Approved in MYT/RE	Actual	FY (n)	FY (n+1)	FY (n+2)	FY (n+3)
1	Plant & Machinery		18.59				
2	Building		3.61				
3	Hydraulic works & civil works						
4	Line cable & network		7.46				
5	Vehicles						
6	Furniture & fixtures						
7	Office equipments		0.16				
8	Civil		2.87				
9	Total expenses						
10	Less capitalized						
11	Net Expenses						
12	Total expenses charged to revenue	48.46	32.69	159.64	228.61	260.18	309.94

\* Year-wise details of these charges may be provided with documentary evidence

**Name of Transmission Licensee****Administration and General Expenses****Form No: F16**

Rs. Crores

Particulars	Previous Year		Current Year (i. e. RE)	Ensuing years (Projection)		
	Approved in MYT/RE	Actual		FY (n+1)	FY (n+2)	FY (n+3)
Rent, rates & taxes		1.56	2.14	2.23	2.32	2.41
Insurance		2.4	3.30	3.43	3.57	3.71
Telephone, postage & Telegrams		0.43	0.59	0.61	0.64	0.66
Consultancy fees		1.14	1.57	1.63	1.69	1.76
Technical fees		0.45	0.62	0.64	0.67	0.70
Other professional charges		0.02	0.03	0.03	0.03	0.03
Conveyance & travel expenses		3.79	5.21	5.42	5.63	5.86
Electricity & Water charges		7.07	9.72	10.11	10.51	10.93
Freight		0.01	0.01	0.01	0.01	0.02
Other material related expenses			-	-	-	-
Penalty/Fine Paid (if any)			-	-	-	-
Any other expenses (please specify)		9.22	12.68	13.18	13.71	14.25
Total expenses			-			
Less Capitalised			-			
Net expenses			-			
Total expenses charged to revenue	18.45	26.09	35.87	37.30	38.79	40.34

\* Year-wise details of these charges may be provided with documentary evidence.

Name of Transmission Licensee

**Short Term Open Access Consumers**

Form No: F17

Rs. Crores

Particulars	Previous Year		Current Year (i.e. RE)	Ensuing years (Projection)		
	Approved in MYT/RE	Actual		FY (n+1)	FY (n+2)	FY (n+3)
Number of Short Term Open Access Customers		1	Not Applicable for BSPTCL			
Amount	0	0				
Retained by Licensee	0	0	0	0	0	
Payable to Beneficiaries	0	0	0	0	0	

Signature of Petitioner

No	Particulars	Previous Year		Current Year (i.e. RE)	Ensuing years (Projection)		
		Approved in MYT/RE	Actual		FY (n+1)	FY (n+2)	FY (n+3)
1	Profits derived from disposal of assets		8.24				
2	Rents		0.24				
3	Income from Investments other than Contingency reserves						
4	Interest Income		13.90				
5	Interest on Advances to Suppliers / Contractors						
6	Delayed Payment surcharge						
7	Meter Rent						
8	Miscellaneous Receipts from consumers						
9	Interest on loans and Advances to Staff						
10	Income/Fee/Collection against staff welfare activities						
11	Others						
	Miscellaneous Receipts		0.79	28.08	29.48	30.95	32.50
	Application fee Received		0.01				
	Terminal Benefits from GoB	41.09	3.56				
	<b>Total</b>	<b>41.09</b>	<b>26.74</b>	<b>28.08</b>	<b>29.48</b>	<b>30.95</b>	<b>32.50</b>



Rs. Crores

	Particulars	Previous Year		Current Year (i.e. RE)	Ensuing years (Projection)		
		Approved in MYT/RE	Actual		FY (n+1)	FY (n+2)	FY (n+3)
1	Receivables equivalent to two (2) month of transmission charges calculated on target availability level	109.52	109.52	199.04	314.31	452.55	592.97
2	O&M Expenses of one month	14.54	17.48	29.10	35.49	38.77	43.60
3	Maintenance spares@ 1% of Opening GFA with 6% Escalation (Up to FY 17-18) from 18-19 Onwards @15% of o&m Exp for One Month	53.28	52.94	67.69	5.32	5.82	6.54
	<b>Total Working Capital</b>	<b>177.34</b>	<b>179.94</b>	<b>295.82</b>	<b>355.12</b>	<b>497.14</b>	<b>643.11</b>
	Interest Rate		12.60%	9.95%	9.95%	9.95%	9.95%
	<b>Interest on Working Capital</b>	<b>20.67</b>	<b>22.67</b>	<b>29.43</b>	<b>35.33</b>	<b>49.47</b>	<b>63.99</b>

**Name of Transmission Licensee****Investments in Non business related activities**

Form No: F20

Rs. Crores

Sl.No.	Description of investment	Balance at the beginning of the year	Further Investments during the year	Investments realised during the year	Balance at the end of the year	Remarks
		0	0	0	0	0

**Details of Income from Other Business (Rs. In Crore)**

No	Particulars		Previous year	Current year (RE)	Ensuing Years	
I	Receipts from other Business	I	0	0	0	0
	Less: Expenses from other business	E	0	0	0	0
	Revenue of other Business	R=I-E	0	0	0	0
II	Assets of Licensed business utilized in other business	A	0	0	0	0
	Total assets of other business (including the assets utilized of the Licensed Business)	C	0	0	0	0
	Allocation of Revenue to Licensed Business decided by the Commission	X	0	0	0	0
III	Due to Licensed Business (to be deducted from ARR)*	$X*(R*A/C)$	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

**Note:- Information to be provided for Previous Year, Current Year & each year of Control period**

\*In case Gross Receipts exceed expenditure of other business in (I) above (where Gross receipt is less than expenditure of other business in (I) above no amount shall be deducted from ARR of Licensee).

Name of Transmission Licensee

Details of Expenses Capitalised

Form No: F21

Rs. Crores

Sl.No.	Particulars	Previous Year		Current Year (i.e. RE)	Ensuing years (Projection)		
		Approved in MYT/RE	Actual		FY (n+1)	FY (n+2)	FY (n+3)
1	Interest & Finance charges Capitalised	32.94	5.57	75.74			
2	Other expenses capitalised:				It will be provided as per actual basis in relevant years.		
	a. Employee expenses	0	0				
	b. R&M Expenses	0	0				
	c. A&G Expenses	0	0				
	d. Depreciation	0	0				
	e. Others, if any	0	0				
	<b>Total of 2</b>	0	0	0	0	0	0
	<b>Grand Total</b>	32.94	5.57	75.74	0	0	0

Signature of Petitioner

**Name of Transmission Licensee****Net Prior Period Expenses / Income****Form No: F22**

Rs. Crores

Sl.No.	Particulars	Previous Year	Current year (RE)
<b>A</b>	<b>Income relating to previous years:</b>		
1	Interest income for prior periods		
2	Income Tax prior period		
3	Excess Provision for Depreciation		
4	Excess Provision for Interest and Fin. Charges		
5	Other Excess Provision		
6	Others (please specify)		
	<b>Sub-Total A</b>		
<b>B</b>	<b>Expenditure relating to previous years</b>		
1	Employee Cost		
2	Depreciation		
3	Interest and Finance Charges		
4	Admn. Expenses		
5	Withdrawal of Revenue Demand		
6	Material Related		
7	Others (please specify)		
	<b>Sub-Total B</b>		
	<b>Net prior period Credit/(Charges) : A-B</b>		<b>NIL</b>

**Extraordinary Items(Rs. Crores)**

Sl.No.	Particulars	Previous Year	Current year (RE)
1	Extraordinary Credits	0	
a	^--	0	
	<b>TOTAL CREDITS</b>		
2	Extraordinary Debits	0	
a	^--	0	
	<b>TOTAL DEBITS</b>		

**Contribution to Contingency Reserve(Rs. Crores)**

S.N	Particulars	Amount
1	2	3
1	Fixed Assets	Not applicable
2	%age appropriation to the contingency reserve	
3	Appropriation to the contingency amount	
4	Amount invested in securities	
5	Drawal from the contingency reserve (Please specify) (i) (ii) (iii) Total drawal	

**Information Regarding Grant/Subsidy from State Govt/Central Govt.**

S.N	Particulars	Previous Year	Current Year	Ensuing Years
1	2	3	4	5
A	Amount from State Govt.			
	i) Purpose for which grant received			
	(a)			
	(b)			
	ii) Targeted categories for subsidy			
	(a)			
B	Amount from Central Govt.			
	i) Received under PSDF Scheme	37.36		
	(a)			
	(b)			
C	Amount from Consumer			
	i) Received under Deposit work	183.00		



Name of Transmission Licensee :M/s BSPTCL  
Transmission Losses (For Transmission Licensee)

Form No. P1 (Revised)

S.No.	Details	Previous Year	Current Year	Ensuing Years
B	Losses in 220 KV system		upto Sept'18	
1	Total Energy delivered by generating Stations and Inter State / Intra State tie - links at the interface points of the Intra State Transmission system	19105.851	11073.214	
2	Energy Delivered to next (Lower) voltage level of the Transmission System	18702.788	10894.478	
3	Sum of all the energy delivered at this voltag level to the state Distribution System	0.000	0.000	
4	Transmission loss in system (B1-B2-B3)	403.063	178.736	
5	Transmission loss in (Transco) system (%) (B4/B1)x100	2.110	1.614	

C	Losses calculation at 132KV	Previous Year	Current Year	Ensuing Years
		FY (n-1)	upto Sep'18	FY (n+1)
	Pertaining to Transmission Business Only, SLDC shall file separately	26885.414	15692.136	
2	Energy Delivered to next (Lower) voltage level	23230.962	13976.069	
3	sum of all the energy delivered at this voltage level to the state Distribution System	2758.734	1382.440	
4	Transmission loss in System (C1-C2-C3)	895.719	333.627	
5	Transmission loss in (Transco) system (%) C4/C1) x 100	3.332	2.126	

D	Total Losses in the Transmission system	Previous Year	Current Year (upto Sept'18)	Ensuing Years
1	Total Energy delivered by generating Stations and Inter State / Intra State tie - links at the interface points of the Intra State Transmission system - <b>As recieved from Energy Accounting by SBPDCL</b>	26760.45835	16092.74	
2	sum of all the energy delivered at this voltage level to the state Distribution System- <b>From energy meter readings in GSS</b>	25989.69585	15358.5091	
3	Transmission loss in System (D1-D2)	770.762502	734.2309	
4	Transmission loss in (Transco) system (%) (D3/D1) x100	2.880%	4.562%	

**\*Note:** The net transmission loss has been calculated from energy meter data from each GSS, The net transmission loss from energy meter reading is showing less than loss % submitted by DISCOM in Energy Accounting(shown below). Replacement of defective energy meters is going on in BSPTCL GSS. It is to say that, actual Energy loss can be calculated accurately once BSPTCL completes the replacement of all defective energy meters by new ABT energy meters which is expected to be completed in coming 3-4 months as per LOI with Secure meters.

D	Total Losses in the Transmission system	Previous Year	Current Year (upto Sept'18)	Ensuing Years
1	Total Energy delivered by generating Stations and Inter State / Intra State tie - links at the interface points of the Intra State Transmission system - <b>As recieved from Energy Accounting by DISCOMs</b>	26760.45835	16092.74	
2	sum of all the energy delivered at this voltage level to the state Distribution System- <b>As recieved from Energy Accounting by DISCOMs</b>	25559.38382	15331.07	
3	Transmission loss in System (D1-D2)	1201.074532	761.67	
4	Transmission loss in (Transco) system (%) (D3/D1) x100	4.488%	4.733%	4.49%

Signature of Petitioner

**FY 2018-19 (April 18- August 18)**

Name of Transmission Licensee : BSPTCL

Energy Delivered by Transmission licensee to the Distribution

Form No.- P2

Licensees/ Bulk consumers at interface points

Voltage Level	Name of Sub-Station	Distribution Licensee / Bulk Consumer				Total Energy Delivered (MUs)
		NBPDC (MUs)		SBPDCL (MUs)		
		North Bihar	Railway	South Bihar	Railway	
220 KV	N/A	N/A	N/A	N/A	N/A	
132 KV	132KV KHAGARIA	0	2.2116		2.2116	
	220KV MADHEPURA	0	1.30785		1.30785	
	132KV KATAIYA	375.74976	0		375.74976	
	132KV SHEETALPUR	0	6.504		6.504	
	132KV VAISHALI	0	6.8976		6.8976	
	132KV CHAPRA	0	7.344351		7.344351	
	220KV GOPALGANJ	0.4084	0		0.4084	
	132KV SIWAN	0	6.57765		6.57765	
	132KV HAZIPUR	0	4.415614		4.415614	
	132KV RAXAUL	201.501	0		201.501	
	132KV RAMNAGAR	63.217681	0		63.217681	
	132KV MOTIHARI	0.723803	0		0.723803	
	132KV KATI HAR	0	4.4913		4.4913	
	132KV SAMASTIPUR	0	6.2273		6.2273	
	132KV DALSINGHSARAI	0	10.272		10.272	
	132KV ARA			0	10.809733	
	132KV AURANGABAD			58.08815	0	
	132KV BANJARI			1.8836	0	
	132KV DUMRAON			0	11.8458	
	132KV HATHIDAH			0	10.743849	
	132KV JAMUI			0	20.90328	
	132KV JEHANABAD			0	11.540844	
	132KV LAKHISARAI			0	15.762134	
	132KV RAFIGANJ			0.106798	16.3537	
	132KV RAJGIR			1.7235	0	
	132KV SHERGHATI			0.12905	0	
	132KV SONENAGAR			1.89888	11.093546	
	220KV BODHGAYA			0	12.24217	
	220KV FATUHA			0	13.94172	
	220KV KHAGAUL			0	13.966217	
	220KV PUSOULI			0	36.763523	
33 KV	132KV ARARIA	24.1636	0		24.1636	
	132KV ARERAJ	33.84265	0		33.84265	
	132KV BAISI	4.615	0		4.615	
	132KV BALIA	25.1555	0		25.1555	
	132KV BANMANKHI	36.082	0		36.082	
	132KV BARSOI	49.1043	0		49.1043	
	132KV BELSAND	21.525	0		21.525	
	132KV BENIPATTI	37.6385	0		37.6385	
	132KV BETTIAH	123.65914	0		123.65914	
	132KV CHAKIYA	23.8452	0		23.8452	
	132KV CHAPRA	116.653	0		116.653	
	132KV DALSINGHSARAI	66.513078	0		66.513078	
	132KV DARBHANGA	94.60625	0		94.60625	
	132KV DHAKA	80.9713168	0		80.9713168	
	132KV DHAMDAHA	0	0		0	
	132KV DHANHA (THAKRAHA)	1.6722	0		1.6722	
	132KV EKMA	43.72012	0		43.72012	
	132KV FORBISGANJ	129.953921	0		129.953921	
	132KV GANGAWARA	125.142556	0		125.142556	
	132KV HATHUA	43.9952	0		43.9952	
	132KV HAZIPUR	196.356342	0		196.356342	
	132KV JAINAGAR	52.469367	0		52.469367	
	132KV JANDAHA	102.1209	0		102.1209	
	132KV KATAIYA	72.479438	0		72.479438	
	132KV KATI HAR	112.3957	0		112.3957	
	132KV KHAGARIA	111.12477	0		111.12477	
	132KV KISHANGANJ	71.97402	0		71.97402	
	132KV KUSHESHWARSTHAN	45.678118	0		45.678118	
	132KV MADHUBANI	59.902102	0		59.902102	



132KV MAHARAJGANJ	46.446	0		46.446
132KV MAHNAR	14.515	0		14.515
132KV MAJHAUL	47.906	0		47.906
132 KV manihari	2.969	0		2.969
132KV MASHRAKH	64.80414	0		64.80414
132KV MOTIHARI	169.74086	0		169.74086
132KV MUZAFFARPUR	198.45105	1.389196		199.840246
132KV NARKATIAGANJ	30.3244	0		30.3244
132KV NIRMALI	12.197	0		12.197
132KV PANDAUL	94.637819	0		94.637819
132KV PHULPARAS	63.456596	0		63.456596
132KV PURNEA	221.3836	0		221.3836
132KV Raghunathpur	28.4264	0		28.4264
132KV RAMNAGAR	106.858288	0		106.858288
132KV RAXAUL	90.292102	0		90.292102
132KV ROSERA	31.923	0		31.923
132KV RUNISAIDPUR	46.29288	0		46.29288
132KV SAHARSA	95.1227	0		95.1227
132KV SAMASTIPUR	174.96193	2.7593		177.72123
132KV SHEETALPUR	61.206787	0		61.206787
132KV SHEOHAR	35.369	0		35.369
132KV SIMRIBAKHTIYARPUR	17.831	0		17.831
132KV SITAMARHI	129.35994	0		129.35994
132KV SIWAN	184.84111	0		184.84111
132KV SKMCH	198.164648	0		198.164648
132KV SONEBARSA	34.12914	0		34.12914
132KV SUPOUL	71.12636	0		71.12636
132KV SURSAND(PUPRI)	40.4964	0		40.4964
132KV TRIVENIGANJ	10.527	0		10.527
132KV UDAKISHANGANJ	65.918904	0		65.918904
132KV VAISHALI	116.375303	0		116.375303
220KV BEGUSARAI	190.2305	0		190.2305
220KV GOPALGANJ	190.202388	0		190.202388
220KV KISHANGANJ (NEW)	18.6528	0		18.6528
220KV MADHEPURA	76.7636	0		76.7636
220KV MOTIPUR	47.12285	0		47.12285
220KV MUSAHARI	42.2192	0		42.2192
220KV SAMASTIPUR	14.306	0		14.306
AMNOUR GIS	45.5224	0		45.5224
132KV ARA		154.115129	0	154.115129
132KV ATAULA		99.9844	0	99.9844
132KV AURANGABAD		134.4857	0	134.4857
132KV BANJARI		56.280022	0	56.280022
132KV BANKA(OLD)		111.94744	0	111.94744
132KV BARH		102.52875	0	102.52875
132KV BARIPAHARI		201.0976	0	201.0976
132KV BELAGANJ		41.544867	0	41.544867
132KV BIHTA		260.6532	0	260.6532
132KV BIKRAMGANJ		116.55	0	116.55
132KV BUXAR		89.14919	0	89.14919
132KV CHANDAUTI		212.51916	17.712	230.23116
132KV DIGHA		184.209554	0	184.209554
132KV DUMRAON		108.285	0	108.285
132KV EKANGARSARAI		102.48	0	102.48
132KV GAIGHAT		205.59726	0	205.59726
132KV GOH		41.4665	0	41.4665
132KV HARNAUT		70.406	0.5394	70.9454
132KV HATHIDAH		66.4945	0	66.4945
132KV HULASGANJ		48.7829	0	48.7829
132KV IMAMGANJ		49.5784	0	49.5784
132KV JAGDISHPUR		102.325	0	102.325
132KV JAKKANPUR		303.886016	0	303.886016
132KV JAMALPUR		114.41165	9.7353	124.14695
132KV JAMUI		153.730525	0	153.730525
132KV JEHANABAD		103.181967	0	103.181967
132KV KAHALGAON		99.67169	0	99.67169
132KV KARAMNASA		58.08165	12.920998	71.002648
132KV KARBIGHAIA		184.235	1.005	185.24
132KV KATRA		253.132607	0	253.132607
132KV KOCHAS		72.7989	0	72.7989
132KV KUDRA		38.954	0	38.954

	132KV LAKHISARAI			117.105425	0	117.105425
	132KV MASAUDHI			62.944	0	62.944
	132KV MITHAPUR			132.793714	0	132.793714
	132KV MOHANIA			94.0329	0	94.0329
	132KV MUNDESHWARI(BHABHUA)			7.09488	0	7.09488
	132KV NALANDA			72.835	0	72.835
	132KV NAUGACHIA			71.2464	0	71.2464
	132KV NAWADA			213.940399	0	213.940399
	132KV PIRO			30.827	0	30.827
	132KV RAFIGANJ			70.9141	0	70.9141
	132KV RAJGIR			64.6427	0	64.6427
	132KV RAMGARH			38.998	0	38.998
	132KV SABOUR			187.3742	0	187.3742
	132KV SASARAM			97.523152	0	97.523152
	132KV SHEKHPURA			72.622	0	72.622
	132KV SHERGHATI			59.04011	0	59.04011
	132KV SONENAGAR			92.8453	29.998916	122.844216
	132KV SULTANGANJ			77.0174	0	77.0174
	132KV TARAPUR			52.48672	0	52.48672
	132KV TEHTA			40.8826	0	40.8826
	132KV TEKARI			49.9196	0	49.9196
	132KV WAZIRGANJ			42.34635	0	42.34635
	220KV BIHARSARIF			0.0491	0	0.0491
	220KV BODHGAYA			170.799452	0	170.799452
	220KV DEHRI			130.319881	0	130.319881
	220KV FATUHA			215.17003	0	215.17003
	220KV KHAGAUL			371.464299	0	371.464299
	220KV PUSOULI			6.5996	0	6.5996
	220KV SIPARA			108.7388	0	108.7388
	NAWADA GIS			7.79384	0	7.79384
<b>Total for all Voltages</b>		<b>5680.034028</b>	<b>60.397761</b>	<b>6766.761507</b>	<b>257.87813</b>	<b>12765.07143</b>

## FY 2018-19 (Projected)

Name of Transmission Licensee : BSPTCL

Energy Delivered by Transmission licensee to the Distribution

Form No.- P2

Licensees/ Bulk consumers at interface points

Voltage Level	Name of Sub-Station	Distribution Licensee / Bulk Consumer				Total Energy Delivered (MUs)
		NBPDC (MUs)		SBPDC (MUs)		
		North Bihar	Railway	South Bihar	Railway	
220 KV	N/A	N/A	N/A	N/A	N/A	N/A
132 KV	132KV KHAGARIA	0	5.30784	0	0	5.30784
	220KV MADHEPURA	0	3.13884	0	0	3.13884
	132KV KATAIYA	901.799424	0	0	0	901.799424
	132KV SHEETALPUR	0	15.6096	0	0	15.6096
	132KV VAISHALI	0	16.55424	0	0	16.55424
	132KV CHAPRA	0	17.6264424	0	0	17.6264424
	220KV GOPALGANJ	0.98016	0	0	0	0.98016
	132KV SIWAN	0	15.78636	0	0	15.78636
	132KV HAZIPUR	0	10.5974736	0	0	10.5974736
	132KV RAXAUL	483.6024	0	0	0	483.6024
	132KV RAMNAGAR	151.7224344	0	0	0	151.7224344
	132KV MOTIHARI	1.7371272	0	0	0	1.7371272
	132KV KATI HAR	0	10.77912	0	0	10.77912
	132KV SAMASTIPUR	0	14.94552	0	0	14.94552
	132KV DALSINGHSARAI	0	24.6528	0	0	24.6528
	132KV ARA	0	0	25.9433592	0	25.9433592
	132KV AURANGABAD	0	0	139.41156	0	139.41156
	132KV BANJARI	0	0	4.52064	0	4.52064
	132KV DUMRAON	0	0	0	28.42992	28.42992
	132KV HATHIDAH	0	0	0	25.7852376	25.7852376
	132KV JAMUI	0	0	0	50.167872	50.167872
	132KV JEHANABAD	0	0	0	27.6980256	27.6980256
	132KV LAKHISARAI	0	0	0	37.8291216	37.8291216
	132KV RAFIGANJ	0	0	0.2563152	39.24888	39.5051952
	132KV RAJGIR	0	0	4.1364	0	4.1364
	132KV SHERGHATI	0	0	0.30972	0	0.30972
	132KV SONENAGAR	0	0	4.557312	26.6245104	31.1818224
	220KV BODHGAYA	0	0	0	29.381208	29.381208
	220KV FATUHA	0	0	0	33.460128	33.460128
	220KV KHAGAUL	0	0	0	33.5189208	33.5189208
	220KV PUSOULI	0	0	0	88.2324552	88.2324552
33 KV	132KV ARARIA	57.99264	0	0	0	57.99264
	132KV ARERAJ	81.22236	0	0	0	81.22236
	132KV BAISI	11.076	0	0	0	11.076
	132KV BALIA	60.3732	0	0	0	60.3732
	132KV BANMANKHI	86.5968	0	0	0	86.5968
	132KV BARSOI	117.85032	0	0	0	117.85032
	132KV BELSAND	51.66	0	0	0	51.66
	132KV BENIPATTI	90.3324	0	0	0	90.3324
	132KV BETTIAH	296.781936	0	0	0	296.781936
	132KV CHAKIYA	57.22848	0	0	0	57.22848
	132KV CHAPRA	279.9672	0	0	0	279.9672
	132KV DALSINGHSARAI	159.6313872	0	0	0	159.6313872
	132KV DARBHANGA	227.055	0	0	0	227.055
	132KV DHAKA	194.3311603	0	0	0	194.3311603
	132KV DHAMDAHA	0	0	0	0	0
	132KV DHANHA (THAKRAHA)	4.01328	0	0	0	4.01328
	132KV EKMA	104.928288	0	0	0	104.928288
	132KV FORBISGANJ	311.8894104	0	0	0	311.8894104
	132KV GANGAWARA	300.3421344	0	0	0	300.3421344
	132KV HATHUA	105.58848	0	0	0	105.58848
	132KV HAZIPUR	471.2552208	0	0	0	471.2552208
	132KV JAINAGAR	125.9264808	0	0	0	125.9264808
	132KV JANDAHA	245.09016	0	0	0	245.09016
	132KV KATAIYA	173.9506512	0	0	0	173.9506512
	132KV KATI HAR	269.74968	0	0	0	269.74968
	132KV KHAGARIA	266.699448	0	0	0	266.699448
	132KV KISHANGANJ	172.737648	0	0	0	172.737648
	132KV KUSHESHWARSTHAN	109.6274832	0	0	0	109.6274832
	132KV MADHUBANI	143.7650448	0	0	0	143.7650448
	132KV MAHARAJGANJ	111.4704	0	0	0	111.4704

132KV MAHNAR	34.836	0	0	0	34.836
132KV MAJHAUL	114.9744	0	0	0	114.9744
132 KV manihari	7.1256	0	0	0	7.1256
132KV MASHRAKH	155.529936	0	0	0	155.529936
132KV MOTIHARI	407.378064	0	0	0	407.378064
132KV MUZAFFARPUR	476.28252	3.3340704	0	0	479.6165904
132KV NARKATIAGANJ	72.77856	0	0	0	72.77856
132KV NIRMALI	29.2728	0	0	0	29.2728
132KV PANDAUL	227.1307656	0	0	0	227.1307656
132KV PHULPARAS	152.2958304	0	0	0	152.2958304
132KV PURNEA	531.32064	0	0	0	531.32064
132KV Raghunathpur	68.22336	0	0	0	68.22336
132KV RAMNAGAR	256.4598912	0	0	0	256.4598912
132KV RAXAUL	216.7010448	0	0	0	216.7010448
132KV ROSERA	76.6152	0	0	0	76.6152
132KV RUNISAIDPUR	111.102912	0	0	0	111.102912
132KV SAHARSA	228.29448	0	0	0	228.29448
132KV SAMASTIPUR	419.908632	6.62232	0	0	426.530952
132KV SHEETALPUR	146.8962888	0	0	0	146.8962888
132KV SHEOHAR	84.8856	0	0	0	84.8856
132KV SIMRIBAKHTIYARPUR	42.7944	0	0	0	42.7944
132KV SITAMARHI	310.463856	0	0	0	310.463856
132KV SIWAN	443.618664	0	0	0	443.618664
132KV SKMCH	475.5951552	0	0	0	475.5951552
132KV SONEBARSA	81.909936	0	0	0	81.909936
132KV SUPOUL	170.703264	0	0	0	170.703264
132KV SURSAND(PUPRI)	97.19136	0	0	0	97.19136
132KV TRIVENIGANJ	25.2648	0	0	0	25.2648
132KV UDAKISHANGANJ	158.2053696	0	0	0	158.2053696
132KV VAISHALI	279.3007272	0	0	0	279.3007272
220KV BEGUSARAI	456.5532	0	0	0	456.5532
220KV GOPALGANJ	456.4857312	0	0	0	456.4857312
220KV KISHANGANJ (NEW)	44.76672	0	0	0	44.76672
220KV MADHEPURA	184.23264	0	0	0	184.23264
220KV MOTIPUR	113.09484	0	0	0	113.09484
220KV MUSAHARI	101.32608	0	0	0	101.32608
220KV SAMASTIPUR	34.3344	0	0	0	34.3344
AMNOUR GIS	109.25376	0	0	0	109.25376
132KV ARA	0	0	369.8763096	0	369.8763096
132KV ATAULA	0	0	239.96256	0	239.96256
132KV AURANGABAD	0	0	322.76568	0	322.76568
132KV BANJARI	0	0	135.0720528	0	135.0720528
132KV BANKA(OLD)	0	0	268.673856	0	268.673856
132KV BARH	0	0	246.069	0	246.069
132KV BARIPAHARI	0	0	482.63424	0	482.63424
132KV BELAGANJ	0	0	99.7076808	0	99.7076808
132KV BIHTA	0	0	625.56768	0	625.56768
132KV BIKRAMGANJ	0	0	279.72	0	279.72
132KV BUXAR	0	0	213.958056	0	213.958056
132KV CHANDAUTI	0	0	510.045984	42.5088	552.554784
132KV DIGHA	0	0	442.1029296	0	442.1029296
132KV DUMRAON	0	0	259.884	0	259.884
132KV EKANGARSARAI	0	0	245.952	0	245.952
132KV GAIGHAT	0	0	493.433424	0	493.433424
132KV GOH	0	0	99.5196	0	99.5196
132KV HARNAUT	0	0	168.9744	1.29456	170.26896
132KV HATHIDAH	0	0	159.5868	0	159.5868
132KV HULASGANJ	0	0	117.07896	0	117.07896
132KV IMAMGANJ	0	0	118.98816	0	118.98816
132KV JAGDISHPUR	0	0	245.58	0	245.58
132KV JAKKANPUR	0	0	729.3264384	0	729.3264384
132KV JAMALPUR	0	0	274.58796	23.36472	297.95268
132KV JAMUI	0	0	368.95326	0	368.95326
132KV JEHANABAD	0	0	247.6367208	0	247.6367208
132KV KAHALGAON	0	0	239.212056	0	239.212056
132KV KARAMNASA	0	0	139.39596	31.0103952	170.4063552
132KV KARBIGHAIA	0	0	442.164	2.412	444.576
132KV KATRA	0	0	607.5182568	0	607.5182568
132KV KOCHAS	0	0	174.71736	0	174.71736
132KV KUDRA	0	0	93.4896	0	93.4896
132KV LAKHISARAI	0	0	281.05302	0	281.05302

132KV MASAUDHI	0	0	151.0656	0	151.0656
132KV MITHAPUR	0	0	318.7049136	0	318.7049136
132KV MOHANIA	0	0	225.67896	0	225.67896
132KV MUNDESHWARI(BHABHUA)	0	0	17.027712	0	17.027712
132KV NALANDA	0	0	174.804	0	174.804
132KV NAUGACHIA	0	0	170.99136	0	170.99136
132KV NAWADA	0	0	513.4569576	0	513.4569576
132KV PIRO	0	0	73.9848	0	73.9848
132KV RAFIGANJ	0	0	170.19384	0	170.19384
132KV RAJGIR	0	0	155.14248	0	155.14248
132KV RAMGARH	0	0	93.5952	0	93.5952
132KV SABOUR	0	0	449.69808	0	449.69808
132KV SASARAM	0	0	234.0555648	0	234.0555648
132KV SHEKHPURA	0	0	174.2928	0	174.2928
132KV SHERGHATI	0	0	141.696264	0	141.696264
132KV SONENAGAR	0	0	222.82872	71.9973984	294.8261184
132KV SULTANGANJ	0	0	184.84176	0	184.84176
132KV TARAPUR	0	0	125.968128	0	125.968128
132KV TEHTA	0	0	98.11824	0	98.11824
132KV TEKARI	0	0	119.80704	0	119.80704
132KV WAZIRGANJ	0	0	101.63124	0	101.63124
220KV BIHARSARIF	0	0	0.11784	0	0.11784
220KV BODHGAYA	0	0	409.9186848	0	409.9186848
220KV DEHRI	0	0	312.7677144	0	312.7677144
220KV FATUHA	0	0	516.408072	0	516.408072
220KV KHAGAUL	0	0	891.5143176	0	891.5143176
220KV PUSOULI	0	0	15.83904	0	15.83904
220KV SIPARA	0	0	260.97312	0	260.97312
NAWADA GIS	0	0	18.705216	0	18.705216
<b>Total for all Voltages</b>	<b>13632.08167</b>	<b>144.9546264</b>	<b>16240.22762</b>	<b>618.907512</b>	<b>30636.17142</b>

**FY 2019-20**

Name of Transmission Licensee : BSPTCL

Energy Delivered by Transmission licensee to the Distribution

Form No.- P2

Licensees/ Bulk consumers at interface points

Voltage Level	Name of Sub-Station	Distribution Licensee / Bulk Consumer				Total Energy Delivered (MUs)
		NBPDC (MUs)		SBPDC (MUs)		
		North Bihar	Railway	South Bihar	Railway	
220 KV	N/A	N/A	N/A	N/A	N/A	N/A
132 KV	132KV KHAGARIA	0	5.838624	0	0	5.838624
	220KV MADHEPURA	0	3.452724	0	0	3.452724
	132KV KATAIYA	991.9793664	0	0	0	991.9793664
	132KV SHEETALPUR	0	17.17056	0	0	17.17056
	132KV VAISHALI	0	18.209664	0	0	18.209664
	132KV CHAPRA	0	19.38908664	0	0	19.38908664
	220KV GOPALGANJ	1.078176	0	0	0	1.078176
	132KV SIWAN	0	17.364996	0	0	17.364996
	132KV HAZIPUR	0	11.65722096	0	0	11.65722096
	132KV RAXAUL	531.96264	0	0	0	531.96264
	132KV RAMNAGAR	166.8946778	0	0	0	166.8946778
	132KV MOTIHARI	1.91083992	0	0	0	1.91083992
	132KV KATI HAR	0	11.857032	0	0	11.857032
	132KV SAMASTIPUR	0	16.440072	0	0	16.440072
	132KV DALSINGHSARAI	0	27.11808	0	0	27.11808
	132KV ARA	0	0	0	28.53769512	28.53769512
	132KV AURANGABAD	0	0	153.352716	0	153.352716
	132KV BANJARI	0	0	4.972704	0	4.972704
	132KV DUMRAON	0	0	0	31.272912	31.272912
	132KV HATHIDAH	0	0	0	28.36376136	28.36376136
	132KV JAMUI	0	0	0	55.1846592	55.1846592
	132KV JEHANABAD	0	0	0	30.46782816	30.46782816
	132KV LAKHISARAI	0	0	0	41.61203376	41.61203376
	132KV RAFIGANJ	0	0	0.28194672	43.173768	43.45571472
	132KV RAJGIR	0	0	4.55004	0	4.55004
	132KV SHERGHATI	0	0	0.340692	0	0.340692
	132KV SONENAGAR	0	0	5.0130432	29.28696144	34.30000464
	220KV BODHGAYA	0	0	0	32.3193288	32.3193288
	220KV FATUHA	0	0	0	36.8061408	36.8061408
	220KV KHAGAUL	0	0	0	36.87081288	36.87081288
	220KV PUSOULI	0	0	0	97.05570072	97.05570072
33 KV	132KV ARARIA	63.791904	0	0	0	63.791904
	132KV ARERAJ	89.344596	0	0	0	89.344596
	132KV BAISI	12.1836	0	0	0	12.1836
	132KV BALIA	66.41052	0	0	0	66.41052
	132KV BANMANKHI	95.25648	0	0	0	95.25648
	132KV BARSOI	129.635352	0	0	0	129.635352
	132KV BELSAND	56.826	0	0	0	56.826
	132KV BENIPATTI	99.36564	0	0	0	99.36564
	132KV BETTIAH	326.4601296	0	0	0	326.4601296
	132KV CHAKIYA	62.951328	0	0	0	62.951328
	132KV CHAPRA	307.96392	0	0	0	307.96392
	132KV DALSINGHSARAI	175.5945259	0	0	0	175.5945259
	132KV DARBHANGA	249.7605	0	0	0	249.7605
	132KV DHAKA	213.7642764	0	0	0	213.7642764
	132KV DHAMDAHA	0	0	0	0	0
	132KV DHANHA (THAKRAHA)	4.414608	0	0	0	4.414608
	132KV EKMA	115.4211168	0	0	0	115.4211168
	132KV FORBISGANJ	343.0783514	0	0	0	343.0783514
	132KV GANGAWARA	330.3763478	0	0	0	330.3763478
	132KV HATHUA	116.147328	0	0	0	116.147328
	132KV HAZIPUR	518.3807429	0	0	0	518.3807429
	132KV JAINAGAR	138.5191289	0	0	0	138.5191289
	132KV JANDAHA	269.599176	0	0	0	269.599176
	132KV KATAIYA	191.3457163	0	0	0	191.3457163
	132KV KATI HAR	296.724648	0	0	0	296.724648
	132KV KHAGARIA	293.3693928	0	0	0	293.3693928
	132KV KISHANGANJ	190.0114128	0	0	0	190.0114128
	132KV KUSHESHWARSTHAN	120.5902315	0	0	0	120.5902315
	132KV MADHUBANI	158.1415493	0	0	0	158.1415493
	132KV MAHARAJGANJ	122.61744	0	0	0	122.61744

132KV MAHNAR	38.3196	0	0	0	38.3196
132KV MAJHAUL	126.47184	0	0	0	126.47184
132 KV manihari	7.83816	0	0	0	7.83816
132KV MASHRAKH	171.0829296	0	0	0	171.0829296
132KV MOTIHARI	448.1158704	0	0	0	448.1158704
132KV MUZAFFARPUR	523.910772	3.66747744	0	0	527.5782494
132KV NARKATIAGANJ	80.056416	0	0	0	80.056416
132KV NIRMALI	32.20008	0	0	0	32.20008
132KV PANDAUL	249.8438422	0	0	0	249.8438422
132KV PHULPARAS	167.5254134	0	0	0	167.5254134
132KV PURNEA	584.452704	0	0	0	584.452704
132KV Raghunathpur	75.045696	0	0	0	75.045696
132KV RAMNAGAR	282.1058803	0	0	0	282.1058803
132KV RAXAUL	238.3711493	0	0	0	238.3711493
132KV ROSERA	84.27672	0	0	0	84.27672
132KV RUNISAIDPUR	122.2132032	0	0	0	122.2132032
132KV SAHARSA	251.123928	0	0	0	251.123928
132KV SAMASTIPUR	461.8994952	7.284552	0	0	469.1840472
132KV SHEETALPUR	161.5859177	0	0	0	161.5859177
132KV SHEOHAR	93.37416	0	0	0	93.37416
132KV SIMRIBAKHTIYARPUR	47.07384	0	0	0	47.07384
132KV SITAMARHI	341.5102416	0	0	0	341.5102416
132KV SIWAN	487.9805304	0	0	0	487.9805304
132KV SKMCH	523.1546707	0	0	0	523.1546707
132KV SONEBARSA	90.1009296	0	0	0	90.1009296
132KV SUPOUL	187.7735904	0	0	0	187.7735904
132KV SURSAND(PUPRI)	106.910496	0	0	0	106.910496
132KV TRIVENIGANJ	27.79128	0	0	0	27.79128
132KV UDAKISHANGANJ	174.0259066	0	0	0	174.0259066
132KV VAISHALI	307.2307999	0	0	0	307.2307999
220KV BEGUSARAI	502.20852	0	0	0	502.20852
220KV GOPALGANJ	502.1343043	0	0	0	502.1343043
220KV KISHANGANJ (NEW)	49.243392	0	0	0	49.243392
220KV MADHEPURA	202.655904	0	0	0	202.655904
220KV MOTIPUR	124.404324	0	0	0	124.404324
220KV MUSAHARI	111.458688	0	0	0	111.458688
220KV SAMASTIPUR	37.76784	0	0	0	37.76784
AMNOUR GIS	120.179136	0	0	0	120.179136
132KV ARA	0	0	406.8639406	0	406.8639406
132KV ATAULA	0	0	263.958816	0	263.958816
132KV AURANGABAD	0	0	355.042248	0	355.042248
132KV BANJARI	0	0	148.5792581	0	148.5792581
132KV BANKA(OLD)	0	0	295.5412416	0	295.5412416
132KV BARH	0	0	270.6759	0	270.6759
132KV BARIPAHARI	0	0	530.897664	0	530.897664
132KV BELAGANJ	0	0	109.6784489	0	109.6784489
132KV BIHTA	0	0	688.124448	0	688.124448
132KV BIKRAMGANJ	0	0	307.692	0	307.692
132KV BUXAR	0	0	235.3538616	0	235.3538616
132KV CHANDAUTI	0	0	561.0505824	46.75968	607.8102624
132KV DIGHA	0	0	486.3132226	0	486.3132226
132KV DUMRAON	0	0	285.8724	0	285.8724
132KV EKANGARSARAI	0	0	270.5472	0	270.5472
132KV GAIGHAT	0	0	542.7767664	0	542.7767664
132KV GOH	0	0	109.47156	0	109.47156
132KV HARNAUT	0	0	185.87184	1.424016	187.295856
132KV HATHIDAH	0	0	175.54548	0	175.54548
132KV HULASGANJ	0	0	128.786856	0	128.786856
132KV IMAMGANJ	0	0	130.886976	0	130.886976
132KV JAGDISHPUR	0	0	270.138	0	270.138
132KV JAKKANPUR	0	0	802.2590822	0	802.2590822
132KV JAMALPUR	0	0	302.046756	25.701192	327.747948
132KV JAMUI	0	0	405.848586	0	405.848586
132KV JEHANABAD	0	0	272.4003929	0	272.4003929
132KV KAHALGAON	0	0	263.1332616	0	263.1332616
132KV KARAMNASA	0	0	153.335556	34.11143472	187.4469907
132KV KARBIGHAIA	0	0	486.3804	2.6532	489.0336
132KV KATRA	0	0	668.2700825	0	668.2700825
132KV KOCHAS	0	0	192.189096	0	192.189096
132KV KUDRA	0	0	102.83856	0	102.83856
132KV LAKHISARAI	0	0	309.158322	0	309.158322

132KV MASAUDHI	0	0	166.17216	0	166.17216	
132KV MITHAPUR	0	0	350.575405	0	350.575405	
132KV MOHANIA	0	0	248.246856	0	248.246856	
132KV MUNDESHWARI(BHABHUA)	0	0	18.7304832	0	18.7304832	
132KV NALANDA	0	0	192.2844	0	192.2844	
132KV NAUGACHIA	0	0	188.090496	0	188.090496	
132KV NAWADA	0	0	564.8026534	0	564.8026534	
132KV PIRO	0	0	81.38328	0	81.38328	
132KV RAFIGANJ	0	0	187.213224	0	187.213224	
132KV RAJGIR	0	0	170.656728	0	170.656728	
132KV RAMGARH	0	0	102.95472	0	102.95472	
132KV SABOUR	0	0	494.667888	0	494.667888	
132KV SASARAM	0	0	257.4611213	0	257.4611213	
132KV SHEKHPURA	0	0	191.72208	0	191.72208	
132KV SHERGHATI	0	0	155.8658904	0	155.8658904	
132KV SONENAGAR	0	0	245.111592	79.19713824	324.3087302	
132KV SULTANGANJ	0	0	203.325936	0	203.325936	
132KV TARAPUR	0	0	138.5649408	0	138.5649408	
132KV TEHTA	0	0	107.930064	0	107.930064	
132KV TEKARI	0	0	131.787744	0	131.787744	
132KV WAZIRGANJ	0	0	111.794364	0	111.794364	
220KV BIHARSARIF	0	0	0.129624	0	0.129624	
220KV BODHGAYA	0	0	450.9105533	0	450.9105533	
220KV DEHRI	0	0	344.0444858	0	344.0444858	
220KV FATUHA	0	0	568.0488792	0	568.0488792	
220KV KHAGAUL	0	0	980.6657494	0	980.6657494	
220KV PUSOULI	0	0	17.422944	0	17.422944	
220KV SIPARA	0	0	287.070432	0	287.070432	
NAWADA GIS	0	0	20.5757376	0	20.5757376	
<b>Total for all Voltages</b>		<b>14995.28983</b>	<b>159.450089</b>	<b>17864.25038</b>	<b>680.7982632</b>	<b>33699.78856</b>



**FY 2020-21**

**Name of Transmission Licensee : BSPTCL**

**Energy Delivered by Transmission licensee to the Distribution**

**Form No.- P2**

**Licensees/ Bulk consumers at interface points**

Voltage Level	Name of Sub-Station	Distribution Licensee / Bulk Consumer				Total Energy Delivered (MUs)
		NBPDC (MUs)		SBPDCL (MUs)		
		North Bihar	Railway	South Bihar	Railway	
220 KV	N/A	N/A	N/A	N/A	N/A	N/A
132 KV	132KV KHAGARIA	0	6.104016	0	0	6.104016
	220KV MADHEPURA	0	3.609666	0	0	3.609666
	132KV KATAIYA	1037.069338	0	0	0	1037.069338
	132KV SHEETALPUR	0	17.95104	0	0	17.95104
	132KV VAISHALI	0	19.037376	0	0	19.037376
	132KV CHAPRA	0	20.27040876	0	0	20.27040876
	220KV GOPALGANJ	1.127184	0	0	0	1.127184
	132KV SIWAN	0	18.154314	0	0	18.154314
	132KV HAZIPUR	0	12.18709464	0	0	12.18709464
	132KV RAXAUL	556.14276	0	0	0	556.14276
	132KV RAMNAGAR	174.4807996	0	0	0	174.4807996
	132KV MOTIHARI	1.99769628	0	0	0	1.99769628
	132KV KATI HAR	0	12.395988	0	0	12.395988
	132KV SAMASTIPUR	0	17.187348	0	0	17.187348
	132KV DALSINGHSARAI	0	28.35072	0	0	28.35072
	132KV ARA	0	0	0	29.83486308	29.83486308
	132KV AURANGABAD	0	0	160.323294	0	160.323294
	132KV BANJARI	0	0	5.198736	0	5.198736
	132KV DUMRAON	0	0	0	32.694408	32.694408
	132KV HATHIDAH	0	0	0	29.65302324	29.65302324
	132KV JAMUI	0	0	0	57.6930528	57.6930528
	132KV JEHANABAD	0	0	0	31.85272944	31.85272944
	132KV LAKHISARAI	0	0	0	43.50348984	43.50348984
	132KV RAFIGANJ	0	0	0.29476248	45.136212	45.43097448
	132KV RAJGIR	0	0	4.75686	0	4.75686
	132KV SHERGHATI	0	0	0.356178	0	0.356178
	132KV SONENAGAR	0	0	5.2409088	30.61818696	35.85909576
	220KV BODHGAYA	0	0	0	33.7883892	33.7883892
	220KV FATUHA	0	0	0	38.4791472	38.4791472
	220KV KHAGAUL	0	0	0	38.54675892	38.54675892
	220KV PUSOULI	0	0	0	101.4673235	101.4673235
33 KV	132KV ARARIA	66.691536	0	0	0	66.691536
	132KV ARERAJ	93.405714	0	0	0	93.405714
	132KV BAISI	12.7374	0	0	0	12.7374
	132KV BALIA	69.42918	0	0	0	69.42918
	132KV BANMANKHI	99.58632	0	0	0	99.58632
	132KV BARSOI	135.527868	0	0	0	135.527868
	132KV BELSAND	59.409	0	0	0	59.409
	132KV BENIPATTI	103.88226	0	0	0	103.88226
	132KV BETTIAH	341.2992264	0	0	0	341.2992264
	132KV CHAKIYA	65.812752	0	0	0	65.812752
	132KV CHAPRA	321.96228	0	0	0	321.96228
	132KV DALSINGHSARAI	183.5760953	0	0	0	183.5760953
	132KV DARBHANGA	261.11325	0	0	0	261.11325
	132KV DHAKA	223.4808344	0	0	0	223.4808344
	132KV DHAMDAHA	0	0	0	0	0
	132KV DHANHA (THAKRAHA)	4.615272	0	0	0	4.615272
	132KV EKMA	120.6675312	0	0	0	120.6675312
	132KV FORBISGANJ	358.672822	0	0	0	358.672822
	132KV GANGAWARA	345.3934546	0	0	0	345.3934546
	132KV HATHUA	121.426752	0	0	0	121.426752
	132KV HAZIPUR	541.9435039	0	0	0	541.9435039
	132KV JAINAGAR	144.8154529	0	0	0	144.8154529
	132KV JANDAHA	281.853684	0	0	0	281.853684
	132KV KATAIYA	200.0432489	0	0	0	200.0432489
	132KV KATI HAR	310.212132	0	0	0	310.212132
	132KV KHAGARIA	306.7043652	0	0	0	306.7043652
	132KV KISHANGANJ	198.6482952	0	0	0	198.6482952
	132KV KUSHESHWARSTHAN	126.0716057	0	0	0	126.0716057
	132KV MADHUBANI	165.3298015	0	0	0	165.3298015

132KV MAHARAJGANJ	128.19096	0	0	0	128.19096
132KV MAHNAR	40.0614	0	0	0	40.0614
132KV MAJHAUL	132.22056	0	0	0	132.22056
132 KV manihari	8.19444	0	0	0	8.19444
132KV MASHRAKH	178.8594264	0	0	0	178.8594264
132KV MOTIHARI	468.4847736	0	0	0	468.4847736
132KV MUZAFFARPUR	547.724898	3.83418096	0	0	551.559079
132KV NARKATIAGANJ	83.695344	0	0	0	83.695344
132KV NIRMALI	33.66372	0	0	0	33.66372
132KV PANDAUL	261.2003804	0	0	0	261.2003804
132KV PHULPARAS	175.140205	0	0	0	175.140205
132KV PURNEA	611.018736	0	0	0	611.018736
132KV Raghunathpur	78.456864	0	0	0	78.456864
132KV RAMNAGAR	294.9288749	0	0	0	294.9288749
132KV RAXAUL	249.2062015	0	0	0	249.2062015
132KV ROSERA	88.10748	0	0	0	88.10748
132KV RUNISAIDPUR	127.7683488	0	0	0	127.7683488
132KV SAHARSA	262.538652	0	0	0	262.538652
132KV SAMASTIPUR	482.8949268	7.615668	0	0	490.5105948
132KV SHEETALPUR	168.9307321	0	0	0	168.9307321
132KV SHEOHAR	97.61844	0	0	0	97.61844
132KV SIMRIBAKHTIYARPUR	49.21356	0	0	0	49.21356
132KV SITAMARHI	357.0334344	0	0	0	357.0334344
132KV SIWAN	510.1614636	0	0	0	510.1614636
132KV SKMCH	546.9344285	0	0	0	546.9344285
132KV SONEBARSA	94.1964264	0	0	0	94.1964264
132KV SUPOUL	196.3087536	0	0	0	196.3087536
132KV SURSAND(PUPRI)	111.770064	0	0	0	111.770064
132KV TRIVENIGANJ	29.05452	0	0	0	29.05452
132KV UDAKISHANGANJ	181.936175	0	0	0	181.936175
132KV VAISHALI	321.1958363	0	0	0	321.1958363
220KV BEGUSARAI	525.03618	0	0	0	525.03618
220KV GOPALGANJ	524.9585909	0	0	0	524.9585909
220KV KISHANGANJ (NEW)	51.481728	0	0	0	51.481728
220KV MADHEPURA	211.867536	0	0	0	211.867536
220KV MOTIPUR	130.059066	0	0	0	130.059066
220KV MUSAHARI	116.524992	0	0	0	116.524992
220KV SAMASTIPUR	39.48456	0	0	0	39.48456
AMNOUR GIS	125.641824	0	0	0	125.641824
132KV ARA	0	0	425.357756	0	425.357756
132KV ATAULA	0	0	275.956944	0	275.956944
132KV AURANGABAD	0	0	371.180532	0	371.180532
132KV BANJARI	0	0	155.3328607	0	155.3328607
132KV BANKA(OLD)	0	0	308.9749344	0	308.9749344
132KV BARH	0	0	282.97935	0	282.97935
132KV BARIPAHARI	0	0	555.029376	0	555.029376
132KV BELAGANJ	0	0	114.6638329	0	114.6638329
132KV BIHTA	0	0	719.402832	0	719.402832
132KV BIKRAMGANJ	0	0	321.678	0	321.678
132KV BUXAR	0	0	246.0517644	0	246.0517644
132KV CHANDAUTI	0	0	586.5528816	48.88512	635.4380016
132KV DIGHA	0	0	508.418369	0	508.418369
132KV DUMRAON	0	0	298.8666	0	298.8666
132KV EKANGARSARAI	0	0	282.8448	0	282.8448
132KV GAIGHAT	0	0	567.4484376	0	567.4484376
132KV GOH	0	0	114.44754	0	114.44754
132KV HARNAUT	0	0	194.32056	1.488744	195.809304
132KV HATHIDAH	0	0	183.52482	0	183.52482
132KV HULASGANJ	0	0	134.640804	0	134.640804
132KV IMAMGANJ	0	0	136.836384	0	136.836384
132KV JAGDISHPUR	0	0	282.417	0	282.417
132KV JAKKANPUR	0	0	838.7254042	0	838.7254042
132KV JAMALPUR	0	0	315.776154	26.869428	342.645582
132KV JAMUI	0	0	424.296249	0	424.296249
132KV JEHANABAD	0	0	284.7822289	0	284.7822289
132KV KAHALGAON	0	0	275.0938644	0	275.0938644
132KV KARAMNASA	0	0	160.305354	35.66195448	195.9673085
132KV KARBIGHAIA	0	0	508.4886	2.7738	511.2624
132KV KATRA	0	0	698.6459953	0	698.6459953
132KV KOCHAS	0	0	200.924964	0	200.924964
132KV KUDRA	0	0	107.51304	0	107.51304

132KV LAKHISARAI	0	0	323.210973	0	<b>323.210973</b>
132KV MASAUDHI	0	0	173.72544	0	<b>173.72544</b>
132KV MITHAPUR	0	0	366.5106506	0	<b>366.5106506</b>
132KV MOHANIA	0	0	259.530804	0	<b>259.530804</b>
132KV MUNDESHWARI(BHABHUA)	0	0	19.5818688	0	<b>19.5818688</b>
132KV NALANDA	0	0	201.0246	0	<b>201.0246</b>
132KV NAUGACHIA	0	0	196.640064	0	<b>196.640064</b>
132KV NAWADA	0	0	590.4755012	0	<b>590.4755012</b>
132KV PIRO	0	0	85.08252	0	<b>85.08252</b>
132KV RAFIGANJ	0	0	195.722916	0	<b>195.722916</b>
132KV RAJGIR	0	0	178.413852	0	<b>178.413852</b>
132KV RAMGARH	0	0	107.63448	0	<b>107.63448</b>
132KV SABOUR	0	0	517.152792	0	<b>517.152792</b>
132KV SASARAM	0	0	269.1638995	0	<b>269.1638995</b>
132KV SHEKHPURA	0	0	200.43672	0	<b>200.43672</b>
132KV SHERGHATI	0	0	162.9507036	0	<b>162.9507036</b>
132KV SONENAGAR	0	0	256.253028	82.79700816	<b>339.0500362</b>
132KV SULTANGANJ	0	0	212.568024	0	<b>212.568024</b>
132KV TARAPUR	0	0	144.8633472	0	<b>144.8633472</b>
132KV TEHTA	0	0	112.835976	0	<b>112.835976</b>
132KV TEKARI	0	0	137.778096	0	<b>137.778096</b>
132KV WAZIRGANJ	0	0	116.875926	0	<b>116.875926</b>
220KV BIHARSARIF	0	0	0.135516	0	<b>0.135516</b>
220KV BODHGAYA	0	0	471.4064875	0	<b>471.4064875</b>
220KV DEHRI	0	0	359.6828716	0	<b>359.6828716</b>
220KV FATUHA	0	0	593.8692828	0	<b>593.8692828</b>
220KV KHAGAUL	0	0	1025.241465	0	<b>1025.241465</b>
220KV PUSOULI	0	0	18.214896	0	<b>18.214896</b>
220KV SIPARA	0	0	300.119088	0	<b>300.119088</b>
NAWADA GIS	0	0	21.5109984	0	<b>21.5109984</b>
<b>Total for all Voltages</b>	<b>15676.89392</b>	<b>166.6978204</b>	<b>18676.26176</b>	<b>711.7436388</b>	<b>35231.59714</b>

**FY 2017-18**

Name of Transmission Licensee : BSPTCL

Energy Delivered by Transmission licensee to the Distribution

Form No.- P2

Licensees/ Bulk consumers at interface points

Voltage Level	Name of Sub-Station	Distribution Licensee / Bulk Consumer				Total Energy Delivered (MUs)
		NBPDC (MUs)		SBPDC (MUs)		
		North Bihar	Railway	South Bihar	Railway	
220 KV	N/A	N/A	N/A	N/A	N/A	N/A
132 KV	132KV KHAGARIA	0	4.956	0	0	4.956
	220KV MADHEPURA	0	0.3193	0	0	0.3193
	132KV KATAIYA	911.886	0	0	0	911.886
	132KV SHEETALPUR	0	13.25142	0	0	13.25142
	132KV VAISHALI	0	28.356	0	0	28.356
	132KV CHAPRA	0	15.9855105	0	0	15.9855105
	220KV GOPALGANJ	0.9862	0	0	0	0.9862
	132KV SIWAN	0	5.4555	0	0	5.4555
	132KV HAZIPUR	0	14.598155	0	0	14.598155
	132KV RAXAUL	206.966	0	0	0	206.966
	132KV RAMNAGAR	115.0419491	0	0	0	115.0419491
	132KV MOTIHARI	2.302842	0	0	0	2.302842
	132KV KATI HAR	0	6.8457	0	0	6.8457
	132KV SAMASTIPUR	0	15.1181	0	0	15.1181
	132KV DALSINGHSARAI	0	16.1452	0	0	16.1452
	132KV ARA	0	0	0	25.211865	25.211865
	132KV AURANGABAD	0	0	94.861389	0	94.861389
	132KV BANJARI	0	0	7.85096	0	7.85096
	132KV DUMRAON	0	0	0	26.5675	26.5675
	132KV HATHIDAH	0	0	0	29.814267	29.814267
	132KV JAMUI	0	0	0	39.9064	39.9064
	132KV JEHANABAD	0	0	0	24.095338	24.095338
	132KV LAKHISARAI	0	0	0	36.801466	36.801466
	132KV RAFIGANJ	0	0	0.114384	38.16685	38.281234
	132KV RAJGIR	0	0	4.1033	0	4.1033
	132KV SHERGHATI	0	0	0.1898	0	0.1898
	132KV SONENAGAR	0	0	12.144	31.358144	43.502144
	220KV BODHGAYA	0	0	0	28.410299	28.410299
	220KV FATUHA	0	0	0	27.523196	27.523196
	220KV KHAGAUL	0	0	0	30.121202	30.121202
	220KV PUSOULI	0	0	0	82.608388	82.608388
33 KV	132KV ARARIA	22.5843	0	0	0	22.5843
	132KV ARERAJ	41.1786	0	0	0	41.1786
	132KV BAISI	3.8855	0	0	0	3.8855
	132KV BALIA	37.3808	0	0	0	37.3808
	132KV BANMANKHI	46.3455	0	0	0	46.3455
	132KV BARSOI	19.4293	0	0	0	19.4293
	132KV BELSAND	45.557	0	0	0	45.557
	132KV BENIPATTI	77.370315	0	0	0	77.370315
	132KV BETTIAH	220.382595	0	0	0	220.382595
	132KV CHAKIYA	29.670332	0	0	0	29.670332
	132KV CHAPRA	254.020954	0	0	0	254.020954
	132KV DALSINGHSARAI	150.321453	0	0	0	150.321453
	132KV DARBHANGA	176.51734	0	0	0	176.51734
	132KV DHAKA	134.104626	0	0	0	134.104626
	132KV DHANHA (THAKRAHA)	6.323	0	0	0	6.323
	132KV EKMA	87.054967	0	0	0	87.054967
	132KV FORBISGANJ	283.087768	0	0	0	283.087768
	132KV GANGAWARA	209.053372	0	0	0	209.053372
	132KV HATHUA	74.439578	0	0	0	74.439578
	132KV HAZIPUR	349.8565773	0	0	0	349.8565773
	132KV JAINAGAR	131.994477	0	0	0	131.994477
	132KV JANDAHA	176.781629	0	0	0	176.781629
	132KV KATAIYA	159.549296	0	0	0	159.549296
	132KV KATI HAR	213.034458	0	0	0	213.034458
	132KV KHAGARIA	199.525787	0	0	0	199.525787
	132KV KISHANGANJ	167.14321	0	0	0	167.14321
	132KV KUSHESHWARSTHAN	80.953484	0	0	0	80.953484
	132KV MADHUBANI	119.661764	0	0	0	119.661764
	132KV MAHARAJGANJ	80.6276	0	0	0	80.6276
	132KV MAHNAR	31.3685	0	0	0	31.3685

132KV MAJHAUL	52.5045	0	0	0	52.5045
132 KV manihari	13.429439	0	0	0	13.429439
132KV MASHRAKH	158.447442	0	0	0	158.447442
132KV MOTIHARI	338.264629	0	0	0	338.264629
132KV MUZAFFARPUR	314.376257	3.190414	0	0	317.566671
132KV NARKATIAGANJ	44.8746	0	0	0	44.8746
132KV NIRMALI	31.573339	0	0	0	31.573339
132KV PANDAUL	192.592725	0	0	0	192.592725
132KV PHULPARAS	168.890068	0	0	0	168.890068
132KV PURNEA	460.46926	0	0	0	460.46926
132KV Raghunathpur	15.651614	0	0	0	15.651614
132KV RAMNAGAR	213.713291	0	0	0	213.713291
132KV RAXAUL	166.4234956	0	0	0	166.4234956
132KV ROSERA	22.80434	0	0	0	22.80434
132KV RUNISAIDPUR	99.12584	0	0	0	99.12584
132KV SAHARSA	207.78567	0	0	0	207.78567
132KV SAMASTIPUR	301.94144	7.2331	0	0	309.17454
132KV SHEETALPUR	113.73327	0	0	0	113.73327
132KV SHEOHAR	60.8225	0	0	0	60.8225
132KV SIMRIBAKHTIYARPUR	39.23808	0	0	0	39.23808
132KV SITAMARHI	282.47574	0	0	0	282.47574
132KV SIWAN	384.58757	0	0	0	384.58757
132KV SKMCH	377.063506	0	0	0	377.063506
132KV SONEBARSA	92.962638	0	0	0	92.962638
132KV SUPOUL	135.184374	0	0	0	135.184374
132KV SURSAND(PUPRI)	55.615	0	0	0	55.615
132KV TRIVENIGANJ	26.052128	0	0	0	26.052128
132KV UDAKISHANGANJ	139.456178	0	0	0	139.456178
132KV VAISHALI	227.689253	0	0	0	227.689253
220KV BEGUSARAI	402.250061	0	0	0	402.250061
220KV GOPALGANJ	380.419324	0	0	0	380.419324
220KV KISHANGANJ (NEW)	46.6282	0	0	0	46.6282
220KV MADHEPURA	154.0688	0	0	0	154.0688
220KV MOTIPUR	90.5114	0	0	0	90.5114
220KV MUSAHARI	40.8528	0	0	0	40.8528
220KV SAMASTIPUR	23.614	0	0	0	23.614
AMNOUR GIS	47.0643	0	0	0	47.0643
132KV ARA	0	0	326.422582	0	326.422582
132KV ATAULA	0	0	195.7782	0	195.7782
132KV AURANGABAD	0	0	263.076	0	263.076
132KV BANJARI	0	0	126.7462	0	126.7462
132KV BANKA(OLD)	0	0	246.911643	0	246.911643
132KV BARH	0	0	222.215718	0	222.215718
132KV BARIPAHARI	0	0	417.6592	0	417.6592
132KV BELAGANJ	0	0	91.155068	0	91.155068
132KV BIHTA	0	0	568.423715	0	568.423715
132KV BIKRAMGANJ	0	0	279.5054	0	279.5054
132KV BUXAR	0	0	196.1305	0	196.1305
132KV CHANDAUTI	0	0	424.54424	39.916	464.46024
132KV DIGHA	0	0	342.155244	0	342.155244
132KV DUMRAON	0	0	225.985	0	225.985
132KV EKANGARSARAI	0	0	195.236	0	195.236
132KV GAIGHAT	0	0	401.84276	0	401.84276
132KV GOH	0	0	69.2235	0	69.2235
132KV HARNAUT	0	0	144.815	1.033	145.848
132KV HATHIDAH	0	0	142.5685	0	142.5685
132KV HULASGANJ	0	0	99.5705	0	99.5705
132KV IMAMGANJ	0	0	119.4698	0	119.4698
132KV JAGDISHPUR	0	0	217.654178	0	217.654178
132KV JAKKANPUR	0	0	568.17	0	568.17
132KV JAMALPUR	0	0	251.9189	22.1106	274.0295
132KV JAMUI	0	0	288.589077	0	288.589077
132KV JEHANABAD	0	0	193.8537445	0	193.8537445
132KV KAHALGAON	0	0	221.04425	0	221.04425
132KV KARAMNASA	0	0	179.258565	28.351093	207.609658
132KV KARBIGHAIA	0	0	351.312	5.017	356.329
132KV KATRA	0	0	552.8438195	0	552.8438195
132KV KOCHAS	0	0	158.2436	0	158.2436
132KV KUDRA	0	0	119.176	0	119.176
132KV LAKHISARAI	0	0	247.096375	0	247.096375
132KV MASAUDHI	0	0	137.33316	0	137.33316

	132KV MITHAPUR	0	0	254.07513	0	254.07513
	132KV MOHANIA	0	0	204.0667	0	204.0667
	132KV MUNDESHWARI(BHABHUA)	0	0	5.794	0	5.794
	132KV NALANDA	0	0	155.964	0	155.964
	132KV NAUGACHIA	0	0	155.6934	0	155.6934
	132KV NAWADA	0	0	443.44351	0	443.44351
	132KV PIRO	0	0	31.811	0	31.811
	132KV RAFIGANJ	0	0	139.9233	0	139.9233
	132KV RAJGIR	0	0	146.49125	0	146.49125
	132KV RAMGARH	0	0	85.308	0	85.308
	132KV SABOUR	0	0	418.01978	0	418.01978
	132KV SASARAM	0	0	176.417422	0	176.417422
	132KV SHEKHPURA	0	0	178.1015	0	178.1015
	132KV SHERGHATI	0	0	136.772	0	136.772
	132KV SONENAGAR	0	0	240.0604	66.340742	306.401142
	132KV SULTANGANJ	0	0	115.6395	0	115.6395
	132KV TARAPUR	0	0	126.4394	0	126.4394
	132KV TEHTA	0	0	85.835	0	85.835
	132KV TEKARI	0	0	114.9504	0	114.9504
	132KV WAZIRGANJ	0	0	92.74385	0	92.74385
	220KV BODHGAYA	0	0	358.9476601	0	358.9476601
	220KV DEHRI	0	0	280.1618663	0	280.1618663
	220KV FATUHA	0	0	464.76535	0	464.76535
	220KV KHAGAUL	0	0	716.354093	0	716.354093
	220KV PUSOULI	0	0	1.7876	0	1.7876
	220KV SIPARA	0	0	190.3472	0	190.3472
	NAWADA GIS	0	0	5.74336	0	5.74336
<b>Total for all Voltages</b>		<b>10789.54414</b>	<b>131.4543995</b>	<b>14030.84894</b>	<b>583.35335</b>	<b>25535.20084</b>

(Revised)

BIHAR GAZETTE (EXTRA) 28 TH August 2018

Name of Transmission Licensee  
Details of Electrical Accidents

Form No.: P3

Type of Accident	Previous Year		Current Year (RE)	
	No. of Accdents		No. of Accdents	
	FATAL	NON FATAL	FATAL	NON FATAL
Human	2	1	2	1
Other, if any (please Specify)	Nil	Nil	Nil	Nil
<b>Total</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>

**FY 2017-18 (Previous Year)**

Fatal Accident occurred in :- (i) 132 kV Ara (PG) - Ara T/L on dated 19.06.17  
(ii) 132 kV BTPS - Purnea line on dated 30.06.17  
Non Fatal Accident occurred in :- (i) 132 kV Sipara - Jakkanpur T/L on dated 23.09.17

**FY 2018-19 (Current Year)**

Fatal Accident occurred in :- (i) 132 kV Forbesganj - Kataiya T/L on dated 27.08.18  
(ii) 132 kV Lakhisarai - Hathidah T/L on dated 21.10.18  
Non Fatal Accident occurred in :- (i) 33 kV Vibhutipur bay at GSS, Dalsinghsarai on dated 16.12.18.

BIHAR GAZETTE (EXTRA) 17 TH July 2018

Name of Transmission Licensee  
Abstract of Outages due to feeder tripping

Form No.: P4

Revised

s. No.	Detail	Previous Years				Current Years				Ensuing Years			
		total No. of feeders	No. of tripping	Total Duration of Trippings (hrs.)	duration of interruption per feeder	total No. of feeders	No. of tripping	Total Duration of Trippings (hrs.)	Average duration of interruption per feeder	No. of feeders	No. of tripping	Total Duration of Trippings (hrs.)	Average duration of interruption per feeder
1	Voltage Level												
2	Voltage Level	53	172	1455:45:00	27:28:01	70	48	621:18:00	8:52:33				
s. No.	Detail	Previous Years				Current Years				Ensuing Years			
		total No. of feeders	No. of tripping	Total Duration of Trippings (hrs.)	Average duration of interruption per feeder	total No. of feeders	No. of tripping	Total Duration of Trippings (hrs.)	Average duration of interruption per feeder	No. of feeders	No. of tripping	Total Duration of Trippings (hrs.)	Average duration of interruption per feeder
3	Feeder Voltage Level (132 KV)	278	377	5708:29:00	20:32:03	291	168	2692:13:00	09:15				



BIHAR GAZETTE (EXTRA) 28TH AUGUST 2018

Name of Transmission Licensee

Major System Disturbances

Forn No. P5 revised

Sl. No.	Disturbances	Previous Year		Current Years		Ensuing Years	
		Number	Total Duration	Number	Total Duration	Number	Total Duration
<b>A</b>	Disturbances when DISCOM supply has been effected for more than 1 hr.						
<b>iv</b>	<b>Due to 220 KV transformer failure</b>	<b>Nil</b>		<b>Nil</b>			
<b>v</b>	<b>Due to 220 KV transmission line failure</b>	<b>Nil</b>		<b>Nil</b>			
Sl. No.	Disturbances	Previous Year		Current Years		Ensuing Years	
		Number	Total Duration	Number	Total Duration	Number	Total Duration
<b>vii</b>	<b>Due to 132 KV transformer failure</b>	<b>Nil</b>		<b>1</b>	<b>08:00</b>		
<b>viii</b>	<b>Due to 132 KV transmission line failure</b>	<b>12</b>	<b>93:58:00</b>	<b>6</b>	<b>46:55:00</b>		
<b>ix</b>	<b>Due to 132 KV sub - station equipment (CT, CVT etc.) failure</b>	<b>1</b>	<b>53:55:00</b>	<b>1</b>	<b>05:54</b>		
<b>B</b>	<b>Estimated unserved energy due to such interruptions</b>						
<b>C</b>	<b>Other Transmission disturbances when DISCOM supply has got effected</b>						
<b>i</b>							
<b>ii</b>							
<b>iii</b>							
<b>iv</b>							
<b>v</b>							
<b>vi</b>							

BIHAR GAZETTE (EXTRA) 17 TH July 2018

Name of Transmission Licensee

Frequency variation

Form No. : P6

REVISED

Sl. No.	Frequency	Previous Years		Current Years(till Aug 2018)		Ensuing Years	
		No. of Hours	As percentage of total hours in the year (%)	No. of Hours	As percentage of total hours in the year (%)	No. of Hours	As percentage of total hours in the year (%)
1	Above 50.5 Hz						
2	50.5-5.2 Hz	0.88	0.01	-	-		
3	50.2-49.8 Hz	8531	97.39	3514.25	95.7		
4	49.8 - 49.5 Hz	227.5	2.6	157.9	4.3		
5	49.5-49.0 Hz						
6	49.0-48.5 Hz						
7	Below 48.5 Hz						

Sl. No.	Frequency	Forecast For FY (2019-2020)		Forecast For FY (2020-2021)		Forecast For FY (2021-2022)	
		No. of Hours	As percentage of total hours in the year (%)	No. of Hours	As percentage of total hours in the year (%)	No. of Hours	As percentage of total hours in the year (%)
1	Above 50.5 Hz						
2	50.5-5.2 Hz	35.92	0.41	-	-		
3	50.2-49.8 Hz	8443.76	96.39	8479.68	96.8	8523.48	97.3
4	49.8 - 49.5 Hz	280.32	3.2	280.32	3.2	236.52	2.7
5	49.5-49.0 Hz						
6	49.0-48.5 Hz						
7	Below 48.5 Hz						

Note : Forecasted data for FY (2019-2020),(2020-2021) and (2021-2022) depending on Generation (ISGS and State generation) demand and other situations, this % may vary

Data obtained from SCADA(ULDC)

Name of Transmission Licensee  
Voltage fluctuation

Form No.: P7

S. No	Name of GSS	Transform ation capacity	Reactive Comp ensati on provided	Previous Years						Current Years						Ensuing Years					
				Time during which voltage in an year						Time during which voltage in an year(till Aug 2018)						Time during which voltage in an year					
				More than upper limit in %age		Between upper & lower limit		Less than lower limit in %age		More than upper limit in %age		Between upper & lower limit		Less than lower limit in %age		More than upper limit in %age		Between upper & lower limit		Less than lower limit in %age	
Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age		
1	<b>Biharsharif</b>	450 MVA	Nil																		
	Feeder Voltage Level (220 KV)			1238.25	14.135274	7520.50	85.850457	1.25	0.0142694	92	2.5054466	3580.00	97.4946	0	0						
	Feeder Voltage Level (132 KV)			102.75	1.1729452	8507.00	97.111872	150.25	1.7151826	13.75	0.3744553	3658.25	99.6255		0						
2	<b>Khagaul</b>	400 MVA																			
	Feeder Voltage Level (220 KV)			490	5.5936073	8014.00	91.484018	256	2.9223744	11.5	0.3131808	3659.50	99.6596	1	0.0272331						
	Feeder Voltage Level (132 KV)				0	0.00	0		0		0	0.00	0		0						
3	<b>Sipara</b>	460 MVA	Nil																		
	Feeder Voltage Level (220 KV)			358.5	4.0924658	8327.25	95.059932	74.25	0.8476027	145.5	3.9624183	3526.25	96.0308	0.25	0.0068083						
	Feeder Voltage Level (132 KV)				0	0.00	0		0		0	0.00	0		0						
4	<b>Bodhgaya</b>	760 MVA	Nil																		
	Feeder Voltage Level (220 KV)			1687.5	19.263699	7071.50	80.724886	1	0.0114155	759	20.669935	2913.00	79.3301	0	0						
	Feeder Voltage Level (132 KV)				0	0.00	0		0		0	0.00	0		0						
5	<b>Dehri-On-Sone</b>	400 MVA	Nil																		
	Feeder Voltage Level (220 KV)			0	0	8760.00	100	0	0	49	1.3344227	3623.00	98.6656	0	0						
	Feeder Voltage Level (132 KV)				0	0.00	0		0		0	0.00	0		0						
6	<b>Sonenagar(New)</b>	320 MVA	Nil																		
	Feeder Voltage Level (220 KV)			51	0.5821918	8709.00	99.417808	0	0	0	0	3672.00	100	0	0						
	Feeder Voltage Level (132 KV)				0	0.00	0		0		0	0.00	0		0						
7	<b>Pusaui</b>	300 MVA	Nil																		
	Feeder Voltage Level (220 KV)			2976.25	33.975457	5771.50	65.884703	12.25	0.1398402	1640	44.662309	2032.00	55.3377	0	0						
	Feeder Voltage Level (132 KV)				0	0.00	0		0		0	0.00	0		0						
8	<b>Hajipur</b>	300 MVA	Nil																		
	Feeder Voltage Level (220 KV)			955	10.901826	7645.25	87.274543	159.75	1.8236301	425.5	11.587691	3235.00	88.0991	11.5	0.3131808						
	Feeder Voltage Level (132 KV)				0	0.00	0		0		0	0.00	0		0						
9	<b>Gopalganj</b>	300 MVA	Nil																		
	Feeder Voltage Level (220 KV)			1082.25	12.354452	7210.50	82.311644	467.25	5.3339041	517.75	14.099946	3088.75	84.1163	65.5	1.7837691						
	Feeder Voltage Level (132 KV)				0	0.00	0		0		0	0.00	0		0						
10	<b>Darbhanga</b>	320 MVA	Nil																		
	Feeder Voltage Level (220 KV)			792.5	9.0468037	7063.85	80.637557	903.65	10.315639	168.5	4.58878	2944.50	80.1879	559	15.223312						
	Feeder Voltage Level (132 KV)				0	0.00	0		0		0	0.00	100		0						
11	<b>Samastipur</b>	320 MVA	Nil																		
	Feeder Voltage Level (220 KV)			421	4.8059361	8142.25	92.948059	196.75	2.2460046	212.5	5.787037	3382.25	92.1092	77.25	2.1037582						
	Feeder Voltage Level (132 KV)				0	0.00	0		0		0	0.00	0		0						
12	<b>Begusarai</b>	400 MVA	Nil																		
	Feeder Voltage Level (220 KV)			765.25	8.7357306	7986.25	91.167237	8.5	0.097032	701.5	19.104031	2969.00	80.8551	1.5	0.0408497						
	Feeder Voltage Level (132 KV)				0	0.00	0		0		0	0.00	0		0						
13	<b>Madhepura</b>	400 MVA	Nil																		
	Feeder Voltage Level (220 KV)			2232.5	25.48516	6340.00	72.374429	187.5	2.140411	1267.5	34.517974	1784.00	48.5839	620.5	16.898148						
	Feeder Voltage Level (132 KV)				0	0.00	0		0		0	0.00	0		0						
14	<b>Kishanganj(New)</b>	320 MVA	Nil																		
	Feeder Voltage Level (220 KV)			1332.25	15.208333	7427.75	84.791667	0	0	455	12.391068	3217.00	87.6089	0	0						
	Feeder Voltage Level (132 KV)				0	0.00	0		0		0	0.00	0		0						
15	<b>Motipur</b>	320 MVA	Nil																		
	Feeder Voltage Level (220 KV)									580.25	15.802015	3091.75	84.198	0	0						
	Feeder Voltage Level (132 KV)									0	0.00	0	0		0						
16	<b>Laukahi</b>	160 MVA	Nil																		
	Feeder Voltage Level (220 KV)									94	2.5599129	3559.25	96.9295	18.75	0.5106209						
	Feeder Voltage Level (132 KV)									0	0.00	0	0		0						

Name of Transmission Licensee  
Voltage fluctuation

Form No.: P7

S. No	Name of GSS	Transform ation capacity	Reactive Comp ensati on provided	Previous Years						Current Years						Ensuing Years					
				Time during which voltage in an year						Time during which voltage in an year(till Aug 2018)						Time during which voltage in an year					
				More than upper limit in %age		Between upper & lower limit		Less than lower limit in %age		More than upper limit in %age		Between upper & lower limit		Less than lower limit in %age		More than upper limit in %age		Between upper & lower limit		Less than lower limit in %age	
		Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age		
1	<b>Dumraon</b>		Nil																		
	Feeder Voltage Level (132 KV)	100 MVA		76.75	0.8761416	8374.00	95.593607	309.25	3.5302511	105.75	2.879902	2763.25	75.25	803	21.868192						
3	<b>Ekma</b>		Nil																		
	Feeder Voltage Level (132 KV)	70 MVA		0	0	8760.00	0	0	0	51	1.3888889	827.50	22.54	2793.5	76.075708						
4	<b>Gopalganj</b>		Nil																		
	Feeder Voltage Level (132 KV)	150 MVA		1323.5	15.108447	6958.25	79.432078	478.25	5.4594749	184.75	5.0313181	2494.75	67.94	992.5	27.028867						
5	<b>Mashrah</b>		Nil																		
	Feeder Voltage Level (132 KV)	40 MVA		5226.75	59.666096	2907.25	33.187785	626	7.1461187	3672	100	0.00	0.00	0	0						
6	<b>Buxar</b>		Nil																		
	Feeder Voltage Level (132 KV)	120 MVA		18.25	0.2083333	3524.75	40.236872	5217	59.554795	25.25	0.6876362	2069.00	56.35	1577.75	42.967048						
7	<b>Kishanganj</b>		Nil																		
	Feeder Voltage Level (132 KV)	100 MVA			0	8760.00	100		0	0	0	3672.00	100.00	0	0						
8	<b>Forbisganj</b>		Nil																		
	Feeder Voltage Level (132 KV)	90 MVA		0	0	0.00	0	8760	100	0.25	0.0068083	3654.75	99.53	17	0.462963						
9	<b>Jehanabad</b>		Nil																		
	Feeder Voltage Level (132 KV)	70 MVA		5.5	0.0627854	773.75	8.8327626	7980.75	91.104452	6	0.1633987	1148.25	31.27	2517.75	68.566176						
10	<b>Kochas</b>		Nil																		
	Feeder Voltage Level (132 KV)	40 KVA		4.75	0.0542237	215.00	2.4543379	8540.25	97.491438	160	4.3572985	3291.75	89.64	220.25	5.9980937						
11	<b>Ramnagar</b>		Nil																		
	Feeder Voltage Level (132 KV)	90 MVA		0	0	0.00	0	8760	100	3	0.0816993	3566.50	97.13	102.5	2.7913943						
12	<b>Bettiah</b>		Nil																		
	Feeder Voltage Level (132 KV)	90 MVA		24	0.2739726	7866.25	89.797374	869.75	9.928653	4.5	0.122549	3650.00	99.40	17.5	0.4765795						
13	<b>Nawada</b>		Nil																		
	Feeder Voltage Level (132 KV)	170 MVA		370.25	4.2265982	8389.75	95.773402	0	0	572.5	15.590959	3099.25	84.40	0.25	0.0068083						

Note : Upper/Lower voltage limit: +/- 5% of Rated voltage

1. All 132 kv GSS- having low voltage

Data obtained from SCADA(ULDC)

BIHAR GAZETTE (EXTRA) 17 TH July 2018

Name of Transmission Licensee

Licensee wise Load shedding carried out during the year

Form No. : P8

		Previous year		Cuurnt year	
S. No.	Particulars	NBPDCL (from April 2017 to March 18)	SBPDCL (from April 2017 to March 18))	NBPDCL (from April 2018 to Sept 18)	SBPDCL (from April 2018 to Sept 18)
	Load shedding during the Year (In Hrs)				
1	On SLDC's Instructions				
a	To control excess drawal	77%	79%	75%	77%
b	To Control equipment damage	10%	10%	10%	10%
c	Under force majeure(flood/heavy rain & storm) conditions	2%	0	0	0
2	Due to maintenance or outage of own network	0.11	11%	15%	13%
3	Any other reason				
	<b>Total load shedding for the Year</b>	<b>220319 MWH</b>	<b>187678 MWH</b>	<b>85121 MWH</b>	<b>83448 MWH</b>

Note- Data of ensuing years depends on generation (ISGS & State), demand and other situation.

Name of Transmission Licensee-Bihar state Power Transmission Co. Ltd., Patna

Details of Overloaded feeders

Form No. : P9

S. No	Voltage level	No. of feeders	Feeder length (ckt. Km)	No. of feeders overloaded	Line length Overloaded feeders (ckt. Km)	% number of overloaded feeders in Area
<b>Previous Year</b>						
<b>1</b>	<b>220 KV</b>					
i)	Gaurichak	5	56.88	3	0.68	
<b>2</b>	<b>132 KV</b>					
i)	Sonenagar old	12	512	2	92	
ii)	Madhepura	5	80	2	30	
iii)	Bettiah	8	349	3	128	
iv)	Raxaul	5	90.5	2	22.5	
<b>Current Year</b>						
<b>1</b>	<b>220 KV</b>					
i)	Gaurichak	5	56.88	3	0.68	
<b>2</b>	<b>132 KV</b>					
i)	Sonenagar old	12	512	2	92	
ii)	Madhepura	5	80	2	30	
iii)	Bettiah	8	349	3	128	
iv)	Raxaul	5	107.5	2	22.5	
<b>Forecast for the Year (2019-2020)</b>						
<b>1</b>	<b>220 KV</b>					
i)	Gaurichak	5	56.88	3	0.68	
ii)	Hajipur	4	196	1		
<b>2</b>	<b>132 KV</b>					
i)	Sonenagar old	12	512	2	92	
ii)	Madhepura	6	80	2	30	
iii)	Bettiah	8	349	3		
iv)	Raxaul	5	107.5	2		
<b>Forecast for the Year (2020-2021)</b>						
<b>1</b>	<b>220 KV</b>					
iii)	Gaurichak	5	56.88	3	0.68	
iv)	Hajipur	4	196	1		
<b>2</b>	<b>132 KV</b>					
i)	Sonenagar old	12	512	2	92	
ii)	Madhepura	6	80	2	30	
iii)	Bettiah	8	349	3		
iv)	Raxaul	5	107.5	2		
<b>Forecast for the Year (2021-2022)</b>						
<b>1</b>	<b>220 KV</b>					
iii)	Gaurichak	5	56.88	3	0.68	
iv)	Hajipur	4	196	1		
<b>2</b>	<b>132 KV</b>					
i)	Sonenagar old	12	512	2	2	
ii)	Madhepura	6	80	2	30	
iii)	Bettiah	8	349	3		
iv)	Raxaul	5	107.5	2		

Signature of Petitioner

Name of Transmission Licensee  
Details of overloaded Transformers

Form No. :P10

SI No.	Rated Voltage	Previous Years			Current Years			Ensuing Years		
		Rated Capacity	Actual Load on Transformer	% of Transformers Over loaded	Rated Capacity	Actual Load on Transformer	% of Transformers Over loaded	Rated Capacity	Actual Load on Transformer	% of Transformers Over loaded
1	<b>220/132/33KV Transformers</b>									
	Capacity									
	<b>Muzaffarpur(Circle)</b>									
	i. Gopalganj	3X100 (240MW)	281	17.08333333						
	i. SKMCH	2x50 (80MW)	85	6.25						
	iii. Raxaul GSS (41MW)				1X20+1x50; 20 MVA dedicated to Nepal (32MW)	41	22.50	1X20+1x50; 20 MVA dedicated to Nepal (32MW)	45.1	32.75
	iv. Mushrakh (36MW)				2X20 (32MW)	36	12.50	2X20 (32MW)	39.6	23.75
	v. Dhaka (40MW)				2X20 (32MW)	40	25.00	2X20 (32MW)	44	37.50
	<b>Darbhanga(circle)</b>									
	i. Phoolparas (40MW)				2X20 (32MW)	40	25.00	2X20 (32MW)	44	37.50
	<b>Purnea(Circle)</b>									
	i. Kishanganj (New)(320MW)				2x160 (256MW)	320	21.48	2x160 (256MW)	352	33.98
	ii. Udakishanganj (34MW)				2X20 (32MW)	34	6.25	2X20 (32MW)	37.4	16.88
	<b>Biharsarif(circle)</b>									
	i. Harnaut GSS (37MW)				2X20 (32MW)	37	15.63	2X20 (32MW)	40.7	27.19
	<b>Dehri(Circle)</b>									
	i. Dehri (221 MW)				3X100 (210MW)	221	4.30	3X100 (210MW)	243.1	12.93
	ii. Kochas GSS (35MW)				2X20 (32MW)	35	9.38	2X20 (32MW)	38.5	20.31

Signature of Petitioner

Name of Transmission Licensee  
Failure of Transformers

Form P11 revised

SI No.	Rated Voltage	Previous Years			Current Years			Remarks
		Total No. of Transformers	No. of failures	Duration of failure (hrs.)	Total No. of Transformers	No. of failures	Duration of failure (hrs.)	
1	<b>220/132/33KV Transformers</b>							
	Capacity							
	i							
	Total							
2	<b>220/132 KV Transformers</b>							
	<b>GSS/Capacity</b>							
	i. Dehri GSS (100 MVA)	4x100	1x100					Make-CGL Year of manufacture - 1981 Repaired by AVAL in 2010. Commissioning date at DOS- 30.11.10 Got defective on 06.07.2016 & sent for repairing transformer was old and out of warranty
	ii. Samastipur GSS (160 MVA)				2x160	1x160		Make- T&R Year of manufacture - 2015 Commissioning date - Got defective on 30.07.2018 & sent for repairing. Commissioned after rectification on dated 30.08.2018 Transformer was under warranty
	iii. Motipur (160 MVA)				2x160	1x160		Make- Alstom Year of Manufacture - 2015 Commissioning date - 10.04.17 Got Defective on 26.07.18 Commissioned after rectification on 16.10.18 Transformer was under warranty
	iv. Begusarai (100 MVA)				4x100	1x100		Make - IMP Year of Manufacture- 2008 Commissioning date- 13.08.16 Got Defective on 24.07.18. Charged after rectification on dated 08.10.2018 Transformer was out of warranty.
	<b>Total</b>	<b>400</b>	<b>100</b>		<b>1040</b>	<b>420</b>		
3	<b>132/33 KV Transformers</b>							
	<b>GSS/Capacity</b>							
	i. Teghra (20 MVA)	2x20	1x20					Make - AVAL Year of manufacture - 2016 Commissioning date - 12.10.2017 Got defective since commissioning. Transformer was under warranty.
	ii. Purnea (50 MVA)	3x50	1x50					Make- ABB Year of Manufacture- 2007 Commissioning date- 09.12.09 Got defective from-05.01.18 Transformer was out of warranty.
	iii. Biharsharif GSS (20 MVA)				1x20	1x20		Make- AREVA Year of Manufacture- 2009. Year of Commissioning - 2011 Got defective on 21.07.18. Another 20 MVA commissioned after replacement on dated 08.10.2018 Transformer was out of warranty
	iv. Banjari (20 MVA)				3x20	1x20		Make- BHE Repaired by EMCO - 2015 Year of Commissioning- 30.09.15 Got defective on 22.08.18 Transformer was out of warranty
	v. Khagaria (20 MVA)				2x20+1x50	1x20		Make- HEL Year of Manufacture- 1967 Commissioning at Khagaria - 04.08.09 Got Defective on 19.08.18 Transformer was old and out of warranty
	vi. Sahpur patori (20 MVA) U/C				1x20	1x20		Make- CGL Year of manufacture- 1986 Commissioning date - 04.05.18 Got defective on 06.06.18 Transformer was Old and Out of warranty
	vii. Hathua (20 MVA)				2x20	1x20		Make- ECE Year of manufacture- 2016 Commissioning date- 20.05.17 Got defective from 04.07.18. Another 20 MVA commissioned on 20.09.2018 Transformer was under warranty
	viii. Sheohar (50 MVA)				2x50	1x50		Make- ECE Year of manufacture- 2016 Commissioning date- 27.10.16 Got defective from 24.06.18. Transformer was under warranty.
	ix. Banka(New) (50 MVA)				1x50	1x50		Make- TELK Year of manufacture - 1986 Got defective on 15.09.18 during commissioning Transformer was Old and out of warranty.
	<b>Total</b>	<b>190</b>	<b>70</b>		<b>380</b>	<b>200</b>		



S. No	Particulars	Ensuing Years				
		Previous Year 2017-18	Current Year 2018-19	2019-20	2020-21	2021-22
<b>A Financial &amp; Material Management</b>						
1	Annual capital expenditure/net book value	1391.29	2758.7	1262.85	1990.45	1596.37
2	Total Transmission cost/Energy Transmitted	608.95	877.98	1447.51	1728.54	2001.36
3	Employee cost as a percentage of total cost	23.11	16.28	10.28	8.95	8.04
4	Operating expenses / Revenue from Transmission of power	209.81	349.16	425.83	465.27	523.21
5	Cost of capital invested	NA	NA	NA	NA	NA
6	Debt Service Coverage Ratio	NA	NA	NA	NA	NA
7	transmission lines	NA	NA	NA	NA	NA
9	Working Capital to Revenue from Transmission of power	179.94	243.97	270.95	335.36	387.93
<b>B HR Management</b>						
1	Energy Transmitted (MU) per Employee	2.91	3.04	2.60	2.31	2.23
2	Total line length/employee (cKm.)	6.48	6.86	6.18	5.34	4.85
3	Connected Load per Employee (MVA)	2.91	3.04	2.60	2.31	2.23
4	Transmission income per Employee (Rs. Cr)	0.32	0.43	0.56	0.53	0.54
5	Training participation days per employee	NA	NA	NA	NA	NA
<b>C Operational Performance</b>						
1	Unplanned outage/total outage (Fault breakdown / total outage)	As available in Form P4				
2	Annual replacement rate of Transmission transformers (%): (Transmission Transformers replaced / Transformers in service)	2.00	NA	NA	NA	NA

4659      5222      5608      6316      6876

1919	2060	2589	3275	3708
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12441      14139      16000      17500      18000  
5590.8      6266.4      6729.6      7579.2      8251.2

14789015      17865345      20381325      23227421      26368401

321      336

Signature of Petitioner