

बिहार विद्युत विनियामक आयोग

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Bihar Electricity Regulatory Commission Vidyut Bhawan-II, Bailey Road, Patna - 800 021 Tel No.: 0612-2505280/2504489/6526749/6457918 Fax: 0612-2504488 Website : www.berc.co.in E-mail : bercpat@berc.co.in Patna, Dated:- 19/12/18

Letter No.-BERC-@ne-51 18-1514

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

BERC Case No. 51/2018 Ref:

Sir.

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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 scruitiny 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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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.

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- 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.
- 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 Kishangang 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.

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h) Form P10 may be submitted circle wise.

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- 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.
- 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) Form18- 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.
- 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

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## **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:

S1 No	Scheme	Particulars of Element	Amount (In Rs.)	DOC
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 kvgss at Chakiya	12,48,17,895.00	28-03-2018
40	State Plan	132/33 kvgss 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	IRF	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	3,06,61,949.00	13-10-2017
		Kataiya & Madhepura		
71	BRGF	Transformer Bay at GSS Masaurhi, Katra, Digha &	9,53,11,283.00	18-08-2017
	Ditai	Khagaul	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10 00 2011
		Transformer Bay at GSS		
72	BRGF	Rajgir Ekangarsarai & Shekhpura	5,91,14,229.00	25-06-2017
		Transformer Bay at GSS		
73	BRGF	Rammnagar Dalsinghsarai	12,22,65,659.00	08-09-2017
		& Dhanha, Betiya		
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
	·	TOTAL	13,91,29,92,544.21	

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 Capit- alisation
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			
3	kishanganj trns line 132 KV Fatuha -	49,67,567.00	48,83,064.00	84,503.00
3	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
	32 kv Sonbarsha to	10,01,12,020.00	10,55,67,557.00	47,23,209.00
10	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 Kusheshwar- sthan 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 kvgss at Chakiya	12,48,17,895.00	11,65,47,798.00	82,70,097.00
40	132/33 kvgss at Mahnaar	21,02,69,019.00	18,89,91,787.00	2,12,77,232.00
41	132 KV Bay at GssMadhubaniDalsin ghSarai 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 132/33KvHJP,Pandaul,Gopalganj,Siwan,Motihari	40,29,03,781.00	40,29,03,781.00	
49	Aug of GSS- 132/33Kv Sonngr/ Aurngabd/Dehri/Bux ar	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/Udakisha nganj/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	Fransformer 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	
	TOTAL	13,91,29,92,544.21	12,55,90,20,484.21	1,23,90,55,347.00

#### 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

			Previous Ye	ar
Sr.No.	Particulars	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
А	Total (1+2)	1401.47	220.36	1621.83
	utilized for Assets forming of Depreciable GFA			
3	User contributions Towards Cost Of Capital Assets			0.00
4	Grant Towards Cost Of Capital Assets	1345.43	0.00	1345.43

В	Total (3+4)	1345.43	0.00	1345.43
	nt utilized for Assets forming part of non-Depreciable GFA			
5	User contributions Towards Cost Of Capital Assets			0.00
6	Grant Towards Cost Of Capital Assets			
С	Total (5+6)	0.00	0.00	0.00
Amou	nt remains un-utilized (A-B-C)			
7	User contributions Towards Cost Of Capital Assets			0.00
8	Grant Towards Cost Of Capital Assets	56.04	220.36	276.40
С	Total (7+8)	56.04	220.36	276.40
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:

S1.	Particulars	Amount
No.		
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-

S.N		Previous Year		Current			
5.1	Particulars	Approved in MYT/RE	Actual	Year (RE)		Ensuing years	
1	Opening Gross Fixed Assets	5026.7	5026.7	6,418.00	9176.7	10439.55	12430
а	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
	Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a)		5.57	75.74	0	0	0
L	d/(Less):Adjustment for assets						
d	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

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

### 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.

	Particula rs	Prev	ious Year	Curre	nt Year (i. e. RE)		nsuing years Projection)	Ensuing year s (Proj ecti on)	Ensuing years (Proje				
SI.		Date	Amount	Date	Amount	Date	Amount	Date	Amount	D	Amou	nt	
1	Infusion		541.21		536.59		252.57		398.09		319.27		
Total			541.21		536.59		252.57		398.09		319.27		
Detai	ls of Return c										Rs. Crores		
1	Amount total asset create during the ye	g	1804.03 3		2682.95				1262.85		1990.45		1596.35
2	Less as create from grant	sset ed	0		0				0		0		C
3	Less as create from users contri ion		0		0				0		0		C
4	Net as Create Amount	sset ed of	1804.033		2682.95				1262.85		1990.45		1596.35
5	equity additi Equity	7	541.21		536.59				252.57		398.09		319.27
6	(Open Balan		321.22		862.43				1399.02		1651.59		2049.68
7	Equity (Closin	ng	862.43		1399.02				1651.59		2049.68		2368.95

	Balance)					
	Average					
8	Equity	591.825	1130.725	1525.305	1850.635	2209.315
	Base rate of Return					
	on					
9	Equity%	15.50%	15.50%	15.50%	15.50%	15.50%
9	Tax Rate	13.30 /6	15.5070	13.30%	15.50%	15.5076
	(Enclose					
	detailed					
	calculate					
	on					
	alongwit					
	h					
	supporti					
	ng					
	documen					
	ts)%	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%
	Retrurn o					
	Equity (Rs. In					
10	(RS. III crore)	116.94	223.43	301.40	365.69	436.56
10	Equity	110.94	223.43	301.40	303.09	430.30
	entitled					
	to					
11	incentive					
12	Incentive					
	Additional					
13	Return	52.56	52.56	52.56	52.56	52.56
	Total Return					
	on					
14	Equity	169.50	275.99	353.96	418.25	489.12

### 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 emergy 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 NBPDCL 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

Summa	ry Formats	
1	S1	Profit & Loss Account
2	\$1 \$2	Balance Sheet
3	S2 S3	Cash flow statement
-	al Formats	
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
10	F8	User contributions and grants towards cost of capital assets
12	F9	Details of Loans
12	F10	Details of Equity
10	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
Perform	ance Forma	
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

State	ment of Projected Profit and Loss	Form No: S1						
otuto	mont of Hojoctou Hont and 2000	Rs Crores						
	Particulars	Current Year	Ensuing years (Projection)					
		(i. e. RE)	FY (n+1)	FY (n+2)	FY (n+3)			
A	Revenue/Income							
1	Revenue from operations a)Revenue from Transmission/Wheeling charges -NBPDCL	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							
	Total Revenue*	912.96	1415.05	1780.58	2064.65			
В	Expenditure							
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)							
5	Less: Expenses Capitalized	0.00	0.00	0.00	0.00			
С	Depreciation and Related debits	230.52	329.44	415.33	510.02			
D	Interest & Finance Charges	101.85	265.77	427.28	472.91			
D	Less: Interest Capitalized	-75.74	0.00	0.00	0.00			
G	TOTAL EXPENDITURE (B+C+D)*	605.79	1021.04	1307.88	1506.14			
н	Profit/Loss (A-G)	307.17	394.01	472.70	558.51			

877.98 1372.48 1728.54 2001.36

386.31603.89760.56880.60491.67768.59967.981,120.76

Signature of Petitioner

<b>Projected Balance Sheet</b>		Form No: S2					
			Rs Crores				
Particulars	Current Year	уе	Ensuing years (Projection)				
	(i. e. RE)	FY (n+1)	FY (n+2)	FY (n+3)			
Assets							
Non-current assets							
`							
`							
`	_						
Current assets							
`	_						
`	_						
`							
Total Assets				f calculation			
			ity etc as per inder progres				
EQUITY AND LIABILITIES			inder progres	55			
Equity							
`							
`							
`							
LIABILITIES	1						
`	1						
`	1						
`							
Total Equity and Liabilities							

Signature of Petitioner

Pro	ojec	ted Cash Flow Statement			Form	No: S3			
					Rs Crores				
		Particulars	Current Year (i. e.	Ensuing years (Projection)					
			RE)	FY (n+1)	FY (n+2)	FY (n+3)			
		Cash flows from operating activities							
	i	Net (loss) / Profit							
		Adjustments For							
Α	ii	`							
	iii	`							
	iv	·							
		Net Cash flows from operating activities							
		Cash Flow from Investing Activities	]						
в	i	·							
	ii	`							
	iii	` <u></u>	Regulatory Account for the purpose of						
		Net Cash used in Investing Activities	calculation	of Normati	ve Loan , Eq	Loan , Equity etc as			
			per prescr	ibed regula	tion is unde	r progress			
		Cash Flow from Financing Activities							
С	i	·							
ľ	ii	` <u></u>							
	iii	` <u></u>							
		Net Cash generated from Financing							
		Activities							
D		Total Cash generated/(lost)							
Е		Cash & Cash Equivalants as at beginning of the Financial Year							
_		Cash & Cash Equivalants as at end of the							
F		Financial Year							

Signature of Petitioner

#### Annual Revenue Requirement

Form	No: F1	
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	(Rs. Crores)							
	Particulars	Previe	ous Year	Current Year		Ensuing (Projection)		
	Tattenars	Approved in MYT/RE	Actual	(i. e. RE)	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	
А.	Income from Transmission Function							
1	Receipts							
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)							
	Total Receipts ( A)	623.58	583.28	877.98	1,372.48	1728.54	2001.36	
В	Expenditure							
1	O&M Expenses							
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)	174.42	209.81	349.16	425.83	465.27	523.21	
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	
	Total Expenditure ( B)	694.20	635.69	906.06	1401.96	1759.49	2033.86	
С	Other Deductions							
1	Income from other Business							
2	Non tariff income	41.09	26.74	28.08	29.48	30.95	32.50	
	Revenue from Short Term transmission charges							
-	Total Other Deductions ( C)	41.09	26.74	28.08	29.48	30.95	32.50	
D	Net ARR for Transmission Function (B-C)	653.11	608.95	877.98	1372.48	1728.54	2001.36	
	Shortfall/Excess before tariff revision impact (A-D)		-25.67	-	75.03	0.00	0.00	
F	Tariff Revision Impact		49.36					
_	Shortfall/Excess after tariff revision impact (E-F)		(75.03)	-	75.03	0.00	0.00	
	The ARR of SLDC shall be filed separately by SLDC Expenses	111.1				0.00	-100	

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.

#### Form No: F2

#### Alloted Transmission Capacity and Charges to be paid by Long Term Transmission Customers Long Term Transmission Customers ( CL)

					(In MW) Ensuing years (Projection)			
		Previou	s Year	Current Year				
	Particulars Approved (i. e. RE) in Actual MYT/RE	FY (n+1)	FY (n+2)	FY (n+3)				
Α	<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.							
В	Bulk Consumers/Long Term Open Access Customers (If		50	50	50	50	50	
1								
2								
	Transmission Capacity to all the long term Transmission		4659	5222	5608	6316	6876	

C	harges to be paid by Long Term T	ransmission	ansmission Customers/month				<u>Rs. Crores</u>		
Α	<b>Distribution Licensees</b>								
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.								
В	Bulk Consumers/Long Term Open Access Consumers (If any)								
1									
2									
	Total	623.58	634.90	877.98	1372.48	1728.54	2001.36		

Name of T	ransmission Licensee							
Projection	of Sales , Connected Load and De	mand				Form	No:F3	
		A)F	Projection of sal	es(MU)				
					Ensuring			
		Pervi	ous Year		Y	ears (Projectior	ı)	
					_			
		Approved		Current	Fy	FY	FY	
	Particulars	in MYT/RE	Actual	Year (i.e.RE)	(n+1)	(n+2)	(n+3)	
Α	Distribution Licenses							
	North Bihar Power Distribution							
1			10785.90631	13282.04823	15300	16445	17188	
	South Bihar Power Distribution							
2	Company Limited		14311.29369	16916.12177	17961	18348	19207	
3								
	Bulk Consumers /Long Term							
В	Open Access Customers(If any)		438	438	438	438	438	
1								
2								
	TOTAL		25535.2	30636.17		35232	36833	
		B) Projecti	ion of Connecte	d Load (in KW)				
٨	Distribution Licenses							
A 1			6405836	8130007	9483455	11038067	12756261	
2			8333179	9685338	10847870	12139354	13562140	
3			0000175	5005550	10047070	12105004	15502140	
-	i.							
	ii.							
	Bulk Consumers /Long Term							
В	Bulk Consumers /Long Term Open Access Customers(If any)		50000	50000	50000	50000	50000	
<u>в</u> 1			50000	50000	30000	50000	30000	
2								
	TOTAL		14789015	17865345	20381325	23227421	26368401	

c) Projecti	on Of Maxmium or Peak Demand	(in MW)(Unre	stricted)				
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						
В	Bulk Consumers /Long Term Open Access Customers(If any)		50	50	50	50	50
1							
	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 Ensuing **Previous Year** years (Projection) Current Particulars Year (i. e. Approved RE) FY FY FY Actual in (n+3) (n+1) (n+2) MYT/RE **Distribution Licensees** A North Bihar Power Distribution Company Limited 1 260.32 386.31 603.89 760.56 880.60 South Bihar Power Distribution 2 Company Limited 322.96 491.67 768.59 967.98 1120.76 Others 3 i. 4.54 ii. TOTAL 0.00 587.83 877.98 1372.48 1728.54 2001.36 Bulk Consumers/Long Term Open Access Consumers (If any) в 1 2 TOTAL 0.00 0.00 0.00 0.00 0.00 0.00 Grand Total 0.00 587.83 877.98 1372.48 1728.54 2001.36

#### At Proposed Tariff Rates

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

Project/O&M Form No:F5

#### Name of Transmission Licensee

(a) Details of Transmission Lines and Substations Transmission Lines

Name         Type of Line         S/C OR         No. Of Sub-         Voltage         Line length         op op           No         of line         AC/HVOC         D/C         conductors         level KV         CRKm.         //r           It Voltage         Construction of 132         KV Of Transmission line         long of line         Joint								Date of
No         of line         AC/HVDC         D/C         conductors         level KV         CRKm         /Pr           Construction of 132 KV D/C Transmission Line between 220/132/33 KV Bihta (New) GSS and 132/33 KV Dporming 2 Palgan GSS         AC         D/C         Single         132 KV         70         Un           Spare[4than] D/C transmission line /2.20 KV Bihta(new) - Bihta(existing) D/C Transmission line /2.20 KV Bihta(new) 220/132/38 KV Gist under get at 32 KV and linking lines from Bihta(new) 220/132/38 KV Gist /2 on tunkey basis.         D/C         Single         132 KV         70         or           The construction 122 KV D/C Stonengard (New)-Aurangabad Transmission line RL- 22KW Mth OPGW under BRC Phase-III scheme (H) against NIT No.         D/C         Single         220 KV         122 cor           The construction 132 KW D/C Stonengard (New)-Aurangabad Transmission line RL- 22KW Mth OPGW under BRC Phase-III scheme (H) against NIT No.         AC         D/C         Single         132 kV         220         Un           Construction of 122KV D/C An COS Trans Line RL- 2SKW Wth OPG BRCIP Phase-III RCIP Phase-III RCIP Phase-III AC         D/C         Single         132 kV         22         Un           Work of compliance, on turkey basis.         AC         D/C         Single         132 kV         22         Un           Work of compliance, on turkey basis.         AC         D/C         Single         132 kV<				_				Commercial
Construction of 132 KV 0/C Transmission Line between 220/13/33 KV bihta (New) OSS and 132/33 KV Upcoming Construction of 220 KV Bihta(new)- Sipara(Pana) D/C transmission line (charged at 132 KV) and 33 Kv down linkking lines from Bihta(new) 220/13/33 KV OSS 2 on tunkey basis.         AC         D/C         Single         132 KV         70 cor           Transmission line (charged at 132 KV) and 33 Kv down linkking lines from Bihta(new)- Sipara(Pana) D/C transmission line (charged at 132 KV) and 33 Kv down linkking lines from Bihta(new)- Sipara(Pana) D/C transmission line RL- 220 KV D/C Sonengar (New)-Aurongabad transmission line RL- 22KW with OPGW under BRG Phase-III scheme (M-I) against NIT NO. SS/PR/BSPTCL/2014 Package-B. ING Phase-III ENT-I (N-I) compliance, on turkey basis, d 02 No. of Line         AC         D/C         Single         132KV         22         Un           Vork of Construction of 132KV D/C An COSS-Jage(Bhur CSS-Jage(Bhur CSS) FR/BSPTCL/2014 Package-B. III ENT-I (N-I) compliance, on turkey basis, d 02 No. of Line         AC         D/C         Single         132KV         22         Un						-	-	operation
IVD /C Transmission     Une between       220/132/38 VV Bitta     (New) GSS and       132/38/V Upoming     AC     D/C       Sipara/Patan JO/C     transmission line       1/20     Construction of 220       KV Bitta(new) -     Bitha(ewith) D/C       Bitha(ewith) D/C     transmission line       1/20     Construction of 220       Construction of 220     D/C       Sipara/Patan JO/C     transmission line       1/20     KV Witha(new) -       Bitha(ewith) D/C     transmission line       (charged at 132 KV)     and 33 Kv doon       Bitha(ewith) D/C     transmission line       (charged at 132 KV)     and 33 Kv doon       Bitha(ewith) D/C     transmission line       (charged at 132 KV)     and 33 Kv doon       Bitha(ewith) D/C     transmission line Rt-       220/13/23 KV CSS     AC     D/C       Single     220 KV     122 cor       The construction 132     KV D/C Soneagar     Integration       (Nev) Aurangbad     transmission line Rt-     22KW with OPGW       22KW with OPGW     udde at 122 KV     22 Un       Integration Conf     transmission line Rt-     22KV       22KW with OPGW     transmission line Rt-     22KV       Signa/Ri/SFTCL/2014     package-B. <td< td=""><td>No</td><td>of line</td><td>AC/HVDC</td><td>D/C</td><td>conductors</td><td>level KV</td><td>CktKm.</td><td>/Put in use</td></td<>	No	of line	AC/HVDC	D/C	conductors	level KV	CktKm.	/Put in use
IVD (C Transmission Une between 220/132/38 V Bihta (New) GSS and 132/38V Upcoming 220/132/38 V Bihta (New) GSS and 132/38V Upcoming 200 Construction of 220 V Bihta(new) - Bihta(ewship D)/c Transmission line 220 KV Bihta(new) - Bihta(ewship D)/c Transmission line (charged at 132 KV) and 33 Kv down link/ng lines from Bihta(new) 220/132/38 V GSS 220 KV     D/C     Single     132 KV     70       The construction of 220 (New) Aurangband Transmission line RL- 222K With OPGW Under BidF phase-III scheme (M-1) against NT No. S3/R/RSPTCL 235/12/21 Paget     AC     D/C     Single     220 KV     122       The construction 132 (New) Aurangband Transmission line RL- 22KW with OPGW Under BidF phase-III scheme (M-1) against NT No. S3/R/RSPTCL ZSSV JD(Z Ara GSS Trans Line RL- 2SSW with OPG Earth wire against NT NO. ST Trans Line RL- 2SSW bitto of Construction of 132KV D/C Ara GSS Trans Line RL- 2SSW bitto from turnkey basis.     AC     D/C     Single     132KV     22     Un       Work of Construction of 132KV D/C Ara GSS Trans Line RL- 2SSW with OPG Earth wire against NT NO. So frame Line RL- 2SSW by Char (Construction of G6 nos, of 132 KV D/C towers from Ara (PC) to tower loc. No. 1 with ACSR     AC     D/C     Single     132KV     25     Un								
iv V D/C Transmission     Une between       220(132/38 V Bihta (New) 655 and     JAC       D/C     Single     132 KV       Paligan (5S)     JAC       Construction of 2D     KV Bihta(new) - Bihta(ewising) D/C transmission line     JAC       J20 (MV Bihta(new) - Bihta(ewising) D/C transmission line     JAC       J20 (MJ 2/3) XV OSS (Construction 132 KV D/C Sonenagar (New) Aurangbad Transmission line Rt- 22KM with OPGW under BGF phase-III scheme (N-I) against NT NO - SylFR(JSFTCL)/2014 Package-B.     JAC       J20 Ro. of Line     AC     D/C       Construction of 132KV D/C An GSS Trans Line RL- 23KM with OPG Earth wire against NT MO - SylFR (JSFTCL) JAC - AR (JAC - D/C     Single     132KV       Verk of construction of 132KV D/C An GSS Trans Line RL- 23KM with OPG Earth wire against NT MO - SylFR (JSFTCL) JAC - MO - No - Uwh ACSS     D/C     Single     132KV       Vork of construction of 132KV D/C An GSS Trans Line RL- 23KM with OPG Earth wire against NT MO - SylFR (JSFTCL) JAC - AR (JAC - D/C     Single     132KV     25     Un		Construction of 132						
Line between 220/13/33 VV bilina (New) GSS and 132/38/V Upcoming AC D/C Single 132 KV 70 cor Construction of 220 KV Bitka(new)- Sipara[Patan] D/C transmission line (charge at 132 KV) and 33 Kv down linking lines from Bitha(new)- 220 KV Bitka(new)- Sipara[Patan] D/C transmission line (charge at 132 KV) and 33 Kv down linking lines from Bitha(new)- 20 nunkey basis. AC D/C Single 220 KV 122 cor The construction 132 KV D/C Somengar (New)-Aurangabad transmission line RL- 22KM with OPGW under BRGF phase-III scheme (M-1) against NT No S9/PR/RSPTCL2014 Package-B. <b>3 02 No. of Line</b> AC D/C Single 132KV 22 Un Construction of 132KV D/C Ara QSS Trans Line RL- 23KM with OPG Construction of 132KV D/C Ara QSS Trans Line RL- 23KW with OPG Earth wite against NT Nr. <b>6</b> <b>9 2 No. of Line</b> AC D/C Single 132KV 22 Un Construction of 132KV D/C Ara QSS Trans Line RL- 25KM with OPG Earth wite against NT Nr. <b>6</b> <b>9 2 No. of Line</b> AC D/C Single 132KV 22 Un Construction of 132KV D/C Ara QSS Trans Line RL- 25KM with OPG Earth wite against NT Nr. <b>6</b> <b>9 2 No. of Line</b> AC D/C Single 132KV 22 Un Construction of 132KV D/C Ara QSS Trans Line RL- 25KM with OPG Earth wite against NT Nr. <b>9 2 No. of Line</b> AC D/C Single 132KV 22 Un								
(New) GSS and 132/38X Upcomig         JUC         Single         132 KV         JU           1         Paliganj GSS         AC         D/C         Single         132 KV         70 cor           Construction of 220 KV Birta(new)- Sipara(Patna) D/C         Sipara(Patna) D/C         Image: Single         132 KV         70 cor           Birta(new)- Birta(new)- Birta(new)- Birta(new)- 220 (J32/33 KV GSS         D/C         Single         220 KV         122 cor           Z         ot unkey basis.         AC         D/C         Single         220 KV         122 cor           The construction 132 KV D/C Sonenagar (New)-Aurangabad- Transmission line RL- 22KM with OPCW under BRGF phase-III scheme (N-I) against NIT No SS/PR/ISPTCL/2014 Package-8.         AC         D/C         Single         132KV         22         Un           Construction of 132KV D/C Ara GSS-tagatinburu GSS-tagatinburu GSS-tagainst NT No. S0/PR/ISPTCL /2014-Pack2 Cunder BRCF Phase-III Part-II (N-1) compliance, on turkey basis.         AC         D/C         Single         132KV         22         Un           Genes from Ara (PO) to tower loc. No. of 132 KV D/C         AC         D/C         Single         132KV         22         Un		•						
13233XV Upcoming         AC         D/C         Single         132 KV         70 cor           Construction of 220         KV Sinta(new) -         Sipara(Patha) D/C         132 KV         70 cor           Sipara(Patha) D/C         transmission line         -		220/132/33 KV Bihta						
1     Patiganj GSS     AC     D/C     Single     132 KV     70 cor       Construction of 20     KV Bihta(new) - Sipara(Pata) D/C     Single     132 KV     70 cor       Sipara(Pata) D/C     transmission line     - -220 KV Bihta(new) - Bihta(existing) D/C     -     -     -       Transmission line     - -220 KV Bihta(new) - Bihta(existing) D/C     -     -     -     -       220 Ital/38 KV GSS     0/C     Single     220 KV     122 cor       The construction 132     AC     D/C     Single     220 KV     122 cor       The construction 132     KV O/C Sonenagar (New)-Auragabad     -     -     -     -       Transmission line RL- 22KW with OPCW     under BRGF phase-III     -     -     -     -       Under BRGF phase-III     AC     D/C     Single     132KV     22     -       Construction of 132KV D/C Ara GSS-Jagdishpur     AC     D/C     Single     132KV     22     -       Construction of 132KV D/C Ara GSS-Jagdishpur     AC     D/C     Single     132KV     22     -       Construction of 132KV D/C Ara GSS-Jagdishpur     AC     D/C     Single     132KV     25     0       Construction of 10     -     -     -     -     -     -     - <td></td> <td>(New) GSS and</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		(New) GSS and						
Construction of 220 KV Bihta(new)- Sipara(Patna) D/C transmission line ,220 KV Bihta(new)- Bihta(esting) D/C Transmission line (charged at 132 KV) and 33 KV down linking lines from Bihta(new) 220/132/33 KV GSS 2 on tunkey basis. AC D/C Single 220 KV 122 cor The construction 132 KV D/C Sonenagar (New)-Auragabad Transmission line RL- 22KM with OPGW under BRGF phase-III scheme (N-I) against NIT No 359/PR/BSPTCL/2014 Package B.     AC D/C Single 132KV 22 Un       Construction of 132KV D/C Ara GSS-Jagdishpur GSS Trans Line RL- 25KM with OPG Earth wire against NTT No.55/PR/BSPTCL /2014-Pkg-C under BRGF Phase-III Part -II (N-I) compliance, on turnkey basis. 40 20 No. of Line     AC D/C Single 132KV 22 Un       Work of construction of 132KV D/C Ara GSS-Jagdishpur GSS Trans Line RL- 25KM with OPG Earth wire against NT No.55/PR/BSPTCL /2014-Pkg-C under BRGF Phase-III Part -II (N-I) compliance, on turnkey basis. 40 20 No. of Line     AC D/C Single 132KV 25 Un								Under
KV Bihta(new)- Sipara(Patna) D/C transmission line ,220 KV Bihta(new)- Bihta(new)- Bihta(new)- Bihta(new)     unumber of the second secon		- ·	AC	D/C	Single	132 KV	70	construction.
Sipar(Pitting) D/C         220 VV Bihta(new)- Bihta(esting) D/C         Bihta(esting) D/C         Transmision line (charged at 132 KV )         and 33 kV down linking lines from Bihta(new)         220/13/23 SV 0GS         2 on tunkey basis.         AC       D/C         Single       220 KV         12         The construction 132 (New)-Aurangabad Transmission line RL- 22KM with OPGW under BKF phase-III scheme (N-I) against NT No. SS/PR/BSPTCL/2014 Package-B.         30 20 No of Line       AC       D/C         Single       132KV 22         Construction of 132KV D/C Ara GSS-Jagdishpur GSS Trans Line RL- 25KM with OPG Earth wire against NT No. SS/PR/BSPTCL /2014 PRg-C under BRCP Phase-III Part -II (N-1) compliance, on turkey basis.       AC       D/C         Vork of construction of 0 nos. of 132 KV D/C Ara GSS-Jagdishpur GSS Trans Line RL- 25KM with OPG Earth wire against NT No. SS/PR/BSPTCL /2014 PRg-C under BRCP Phase-III Part -II (N-1) compliance, on turkey basis.       AC       D/C       Single       132KV       25       Un								
transmission line ,220 KV Bihta(new)- Bihta(existing) J/C Transmission line (Charged at 132 KV ) and 33 KV down linking lines from Bihta(new) 220/132/33 KV GSS 2 on tunkey basis.     AC     D/C     Single     220 KV     122 col v       2 on tunkey basis.     AC     D/C     Single     220 KV     122 col v       The construction 132 KV D/C Sonenagar (New)-Aurangabad Transmission line RL- 122KM with OPG-W under BRGP phase-III scheme (N+I) against NT No SS/PR/BSTCL/2014 Package-B.     D/C     Single     132KV     22     Un       Construction of 132KV D/C Ara GSS Trans Line RL- 28KM with OPG Earth wire against NT No. S9 /PR/BSTPCL // 2014 - Pag-C Lunder BRGP Phase-III Part -II (N-I) compliance, on turkey basis.     AC     D/C     Single     132KV     22     Un       Work of construction of 06 nos. of 132 KV D/C tower from Ara (PG) to tower loc. No. 1 with ACSR     AC     D/C     Single     132KV     25     Un								
J22 VV Bihts(new)- Bihts(existing) D/c Transmission line (charged at 132 KV 0) and 33 Kv down Bihts(new) 22 on tunkey basis.     Un       Z on tunkey basis.     AC     D/C     Single     220 KV     122 col 122 col       The construction 132 KV D/C Sonenagar (New)-Aurangabad Transmission line RL- 22KM with OPGW under BRGP phase-III scheme (N-I) against NIT No 55/PR/SSPTCL/2014 Package-B.     AC     D/C     Single     132KV     22     Un       Construction of 132KV D/C Ara GSS Trans Line RL- 25KM with OPG Earth wire against NT No. 59/PR/SSPTCL // 2014 PRg-C Under BRGP Phase-III PROFE     AC     D/C     Single     132KV     22     Un       Work of construction of BRGP Phase-III PROFE     AC     D/C     Single     132KV     25     Un       Work of construction of BRGP Phase-III PROFE     AC     D/C     Single     132KV     25     Un       Work of construction of 06 nos. of 132 KV D/C tower fom Ara (PG) to tower loc. No. 1 with ACSR     AC     D/C     Single     132KV     25     Un								
Bihte(existing) D/C     Transmission line     Units of the image in the im								
(charged at 132 kV) and 33 kV down linking lines from Bihta(new) 220/132/33 kV GSS 2 on tunkey basis.     AC     D/C     Single     220 kV     122 col       The construction 132 (New)-Aurangabad Transmission line RL- 22KM with OPGW undre BRGF phase-III scheme (H-I) against NIT No 59/PR/BSPTCL/2014 Package-8.     AC     D/C     Single     132kV     22     Un       30 20. No. of Line     AC     D/C     Single     132kV     22     Un       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 BRGP Phase-III Part -II (N-I) compliance, on turkey basis.     AC     D/C     Single     132kV     22     Un       Work of construction of 06 nos. of 132 KV D/C twers from Ara (PG) to tower loc. No. 1 with ACSR     AC     D/C     Single     132kV     25     Un								
and 33 KV down linking lines from Bilths(new) 220/132/33 KV GSS 2 on tunkey basis. AC D/C Single 220 KV 122 cor 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-8. 3 02 No. of Line AC D/C Single 132KV 22 Un Construction of 132KV D/C Arn 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. 4 02 No. of Line AC D/C Single 132KV 25 Un Work of construction of 06 nos. of 132 KV D/C towers from Ara [PG] to tower loc. No. 1 with ACSR	·	Transmission line						
linking lines from Bihta/new) 220/132/33 KV GS     AC     D/C     Single     220 KV     122 cor       2     on tunkey basis.     AC     D/C     Single     220 KV     122 cor       The construction 132 KV D/C Sonenagar (New)-Aurangabad Transmission line RL- 22KM with OPGW under BRGP phase-III Scheme (N-I) against NIT No S9/PR/BSPTCL/2014 Package-8.     AC     D/C     Single     132KV     22     Un       Construction of 132KV D/C Ara GSS-Jagdishpur GSS Trans Line RL- 25KM with OPG Earth wire against NIT     AC     D/C     Single     132KV     22     Un       Construction of 132KV D/C Ara GSS-Jagdishpur BRGP Phase -III Part -II (N-I) compliance, on turkey basis.     AC     D/C     Single     132KV     25     Un       Work of construction of 06 nos. of 132 KV D/C towers from Ara (PC) to tower loc. No. 1 with ACSR     AC     D/C     Single     132KV     25     Un								
Bihta(new) 220/132/33 KV GSS 2 on tunkey basis.     AC     D/C     Single     20 KV     122     outure 122       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 S9/PR/BSPTCL/2014 Package-B.     AC     D/C     Single     132KV     22     Un       Construction of 132KV D/C Ara GSS Trans Line RL- 25KM with OPG GSS Trans Line RL- 25KM with OPG Construction of 132KV D/C Ara GSS Trans Line RL- 25KM with OPG Earth wire against NTT No. 59/PR/BSPTCL /2014-Pkg-C under BRGF Phase-III Part-II (N-1) compliance, on turnkey basis.     AC     D/C     Single     132KV     22     Un       Work of construction of 06 nos. of 132 KV D/C tweers from Ara (PC) to tweer loc. No. 1 with ACSR     AC     D/C     Single     132KV     25     Un								
220/132/33 KV GSS     AC     D/C     Single     220 KV     122 cor       The construction 132     The construction 132     France     Image: Construction 132     Image: Construction 132     Image: Construction 132       XV D/C Sonenagar     (New)-Aurangabad     Transmission line RL-     Image: Construction 22 KW     Image: Construction		-						
2on tunkey basis.ACD/CSingle220 KV122 colThe construction 132 KV D/C Sonenagar (New)-Aurangabad Transmission line RL- 22KM with OPGW under BRGF phase-III scheme (N-I) against NIT No S9/PR/BSPTCL/2014 Package-B.ACD/CSingle132KV22Un302 No. of LineACD/CSingle132KV22UnConstruction of 132KV D/C to SS-Jagdishpur GSS Trans Line RL- 25KM with OPG Earth wire against NTTACD/CSingle132KV22UnWork of compliance, on turmley basis.ACD/CSingle132KV25UnWork of construction of 103 2K V/D/C towers from Ara (PG) to tower loc. No. 1 with ACSRACD/CSingle132KV25Un								Under
The construction 132 KV D/C Sonenagar (New)-Aurangabad Transmission line RL- 22KM with OPGW undre BRGF phase-III scheme (N-I) against NIT No 59/PR/BSPTCL/2014 Package-B. 3 02 No. of Line AC D/C Single 132KV 22 Un Construction of 132KV D/C Ara GSS-Jagdishpur GSS Trans Line RL- 25KM with OPG Earth wire against NT No.59/PR/BSPTCL /2014-PKg-C under BRGF Phase -III Part -II (N-1) compliance, on turnkey basis. 4 02 No. of Line AC D/C Single 132KV 25 Un Work of construction of 06 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR			۸۲	n/c	Single	220 KV	122	Under construction.
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-8.       59/PR/BSPTCL/2014 Package-8.         3 02 No. of Line       AC       D/C       Single       132KV       22       Un         Construction of 132KV D/C Ara GSS-Jagdishpur GSS Trans Line RL- 25KM with OPG Earth wire against NTT       AC       D/C       Single       132KV       22       Un         Vork of Construction of 102 No. of Line       AC       D/C       Single       132KV       22       Un         Work of construction of 16 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR       AC       D/C       Single       132KV       25       Un	2	on turkey basis.	AC	5/0	Single	220 80	122	construction.
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-8.       59/PR/BSPTCL/2014 Package-8.         3 02 No. of Line       AC       D/C       Single       132KV       22       Un         Construction of 132KV D/C Ara GSS-Jagdishpur GSS Trans Line RL- 25KM with OPG Earth wire against NTT       AC       D/C       Single       132KV       22       Un         Vork of Construction of 102 No. of Line       AC       D/C       Single       132KV       22       Un         Work of construction of 16 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR       AC       D/C       Single       132KV       25       Un								
(New)-Aurangabad Transmission line RL- 22KM with OPGW under BRGF phase-III scheme (N-I) against NIT No 59/PR/BSPTCL/2014 Package-B.     AC     D/C     Single     132KV     22     Un       3     02 No. of Line     AC     D/C     Single     132KV     22     Un       Construction of 132KV D/C Ara GSS-Jagdishpur GSS Trans Line RL- 2SKM 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.     AC     D/C     Single     132KV     22     Un       Work of construction of 06 nos. of 132 KV D//C towers from Ara (PG) to tower loc. No. 1 with ACSR     AC     D/C     Single     132KV     25     Un	·	The construction 132						
Transmission line RL- 22KM with OPGW under BRGF phase-III scheme (N-I) against NIT No.     NIT No.       302 No. of Line     AC       D/C     Single       132KV D/C Ara GSS Trans Line RL- 25KM with OPG Earth wire against NIT No. 559/PR/BSPTCL /2014-Pkg-C under BRGF Phase - III Part - II (N-1) compliance, on turnkey basis.       402 No. of Line     AC       D/C     Single       132KV Z2     Un		KV D/C Sonenagar						
22KM with OPGW     under BRGF phase-III       scheme (N-I) against     NIT No       59/PR/BSPTCL/2014     Package-8.       3 02 No. of Line     AC       D/C     Single       132KV D/C Ara     GSS-Jagdishpur       GSS-Jagdishpur     GSS-Tans Line RL-       25KM with OPG     Earth wire against       NIT     No. 59/PR/BSPTCL       /2014-Pkg-C undre     BRGF Phase-III       Part-II (N-1)     compliance, on       turnkey basis.     AC       4     02 No. of Line       AC     D/C       Single     132KV       25 No. of Line     AC       AC     D/C       Single     132KV       25 No. of Line     AC       AC     D/C       Single     132KV       25 Under     Single       BGG Phase-III     Part-II (N-1)       compliance, on     turnkey basis.       4     02 No. of Line       AC     D/C       Single     132KV       25 Un								
under BRGF phase-III scheme (N-I) against NIT No. S9/PR/BSPTCL/2014 Package-B. 3 02 No. of Line AC D/C Single 132KV 22 Un 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. 4 02 No. of Line AC D/C Single 132KV 25 Un Work of construction of 06 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR								
scheme (N-I) against NIT No S9/PR/BSPTCL/2014 Package-B. 3 02 No. of Line AC D/C Single 132KV 22 Un 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. 4 02 No. of Line AC D/C Single 132KV 25 Un Work of construction of 06 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR								
NIT No 59/PR/BSPTCL/2014 Package-B.     AC     D/C     Single     132KV     22     Un       3 02 No. of Line     AC     D/C     Single     132KV     22     Un       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.     NC     D/C     Single     132KV     25     Un       Work of construction of 06 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR     AC     D/C     Single     132KV     25     Un								
S9/PR/BSPTCL/2014 Package-B.     AC     D/C     Single     132KV     22     Un       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 BRGP Phase -III Part -II (N-1) compliance, on turnkey basis.     AC     D/C     Single     132KV     22     Un       Vork of construction of 06 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR     AC     D/C     Single     132KV     25     Un								
Package-B.       AC       D/C       Single       132KV       22       Un         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.       AC       D/C       Single       132KV       22       Un         4       02 No. of Line       AC       D/C       Single       132KV       25       Un         Work of construction of 06 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR       AC       D/C       Single       132KV       25       Un								
302 No. of LineACD/CSingle132KV22UnConstruction 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.ACD/CSingle132KV22Un402 No. of LineACD/CSingle132KV25UnWork of construction of 06 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSRACD/CSingle132KV25Un								
132KV D/C Ara         GSS-Jagdishpur         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>4 22 No. of Line</b> AC       D/C         Single       132KV <b>25</b> Un         Work of         construction of 06         nos. of 132 KV D/C         towers from Ara         (PG) to tower loc.         No. 1 with ACSR		-	AC	D/C	Single	132KV	22	Under Progress
132KV D/C Ara         GSS-Jagdishpur         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>4 22 No. of Line</b> AC       D/C         Single       132KV <b>25</b> Un         Work of         construction of 06         nos. of 132 KV D/C         towers from Ara         (PG) to tower loc.         No. 1 with ACSR								
132KV D/C Ara         GSS-Jagdishpur         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.         4         02 No. of Line         AC       D/C         Single       132KV         Work of         construction of 06         nos. of 132 KV D/C         towers from Ara         (PG) to tower loc.         No. 1 with ACSR		Construction of						
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. 4 02 No. of Line AC D/C Single 132KV 25 Un Work of construction of 06 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR		132KV D/C Ara						
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.         4         02 No. of Line         AC       D/C         Single       132KV         25         Un         Work of         construction of 06         nos. of 132 KV D/C         towers from Ara         (PG) to tower loc.         No. 1 with ACSR								
Earth wire against       NIT         NIT       No.59/PR/BSPTCL         /2014-Pkg-C under       BRGF Phase -III         Part -II (N-1)       compliance, on         compliance, on       turnkey basis.         4       02 No. of Line       AC       D/C       Single       132KV       25       Un         Work of       construction of 06       nos. of 132 KV D/C       towers from Ara       [PG] to tower loc.       No. 1 with ACSR       Image: AC								
NIT     No.59/PR/BSPTCL       /2014-Pkg-C under       BRGF Phase -III       Part -II (N-1)       compliance, on       turnkey basis.       4       02 No. of Line       AC       D/C       Single       132KV       25       Un								
/2014-Pkg-C under BRGF Phase -III Part -II (N-1) compliance, on turnkey basis.     AC     D/C     Single     132KV     25     Un       4     02 No. of Line     AC     D/C     Single     132KV     25     Un       Work of construction of 06 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR     Image: Construction of 06 No. 1 with ACSR     Image:		NIT						
BRGF Phase –III Part –II (N-1) compliance, on turnkey basis. 4 O2 No. of Line AC D/C Single 132KV 25 Un Work of construction of 06 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR								
Part -II (N-1) compliance, on turnkey basis.     AC     D/C     Single     132KV     25     Un       4     02 No. of Line     AC     D/C     Single     132KV     25     Un       Work of construction of 06 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR     Image: Construction of 06 nos. of 102 KV D/C     Image: Construction of 06 nos. of 132 KV D/C     Image: Constru								
4     02 No. of Line     AC     D/C     Single     132KV     25     Un       Work of construction of 06 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR     Image: Construction of 06 nos. of 132 KV D/C     Image: Constructi	-	Part –II (N-1)						
4     02 No. of Line     AC     D/C     Single     132KV     25     Un       Work of construction of 06 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR     Image: Construction of 06 nos. of 132 KV D/C     Image: Constructi								
Work of construction of 06 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR			AC	D/C	Single	132KV	25	Under Progress
construction of 06 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR				5/0	SBic	102111		5
construction of 06 nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR								
nos. of 132 KV D/C towers from Ara (PG) to tower loc. No. 1 with ACSR								
towers from Ara (PG) to tower loc. No. 1 with ACSR								
(PG) to tower loc. No. 1 with ACSR								
IDentifier Over Aresten		No. 1 with ACSR						
Panther Conductor for connectivity of		Panther Conductor						
2nd circuit of 132								
KV D/C Ara (PG)-								
Jagdishpur		Jagdishpur						
Transmission line								
under BRGF Phase –III Part –II (N-1)								
5 AC D/C Single 132KV 1 Un	5		AC	D/C	Single	132KV	1	Under Progress

6	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].	AC	D/C	Single	132KV	67Km	In tendering Stage
	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)(48.14 CKM) 2)132KV Biharsharif- Nawada(48.89CKM) 3)132KV Biharsharif- Sheikhpura(38.78CK M) 4)132KV Jamui- sheikhpura(51.9CKM ) under State Plan on Turnkey Basis against NIT No 74/PR/BSPTCL/2015	AC	s/c	Single	132 KV	187.71	Not completed
7	Construction of 132 KV D/C Bakhtiyarpur (New) to Harnaut (New) Transmissionline (15 RKM) & Construction of 132 KV D/C Bakhtiyarpur (New) to Baripahari Transmission line (38 RKM) under state plan (80:20):- Line1:Construction of 132 KV D/C Bakhtiyarpur (New) to Harnaut (New) Transmissionline (15 RKM) Line2:Construction of 132 KV D/C Bakhtiyarpur (New) to Baripahari Transmission line (38 RKM) NIT No. 78/PR/BSPTCL/2018	AC	D/C	Single	133 KV		Awarding under progress

			-					
	Construction of following associated 220KV & 132KV D/C Transmission Lines of 220/132/33KV GSS Asthawan (Dist. Nalanda) on Turnkey Basis:- 1. Construction of 220 KV D/C Transmission line from Sheikhopursarai(BGC L) to 220/132/33 KV GSS Asthawan (Line Length- 20 )RKM 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). 3. Construction of 132 KV D/C Transmission line	AC	AC	Single	220 KV & 132 KV		Awarding under progress	
10	<ul> <li>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.</li> </ul>	AC	s/c	Patnher	132	l) Line1- 17.44KM II) LINE2- 13.34 KM III)LINE3-23.44 KM	I) Line1- 25.05.2017 II) LINE2- 11.08.2018 III)LINE3- 19.04.2018	
11	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	AC	D/C	Panther	132	2km	30.12.2018	
12	Relocation/Reroting of 132 KV D/C Transmission Line (Sonenagar- Garhwa- Rihand) NIT No:- 46/PR/BSPTCL/2015	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)	
15	Construction of 132 kV lines (approx. 202 km) E1)LILO of Darbhanga - Pandaul 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 6) Bettiah - Dhanha DCSS line 8) Bettiah - Dhanha DCSS line 12 KV SS Dhanha to Kuchaikot 13 New line from 132 kV SS Gangwara to ahilyastahn	AC	DCSS	Panther	132 & 33	202	1)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 ILLO 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	

Construction of 132KV S/CTransmission 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 RafiganjACS/CSingle132 KV14.6TO	C issued dated 04.07.17
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	nder Progress
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         20	FY - 2020-21
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	FY - 2020-21
KM).	

	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
22							
23	Construction of 220 KV D/C trans. line for LILO of both ciruits 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		D/C	Double	220 KV	20.5 RKM	FY - 2020-21
23							
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-	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	AC	D/C	single	132KV	RL= 35KM	09.08.2018(ckt.1) & 15.09.2018(ckt-2)

Construction on both circ 220KV D/C Be Purnea ( Transmission 220/132/3 Khagaria (ne against NI 12/PR/BSPTC Package 28	uits of egusarai- PG) I Line at AC 33KV AC w) GSS T No. CL/2016	D/C	single	220kv	СКМ - 28 КМ	work is in progress
constructi LILO line o circuits of 1 BTPS-Purm Transmission Khagariya 220/132/33 K (CKM-10 against N 12/PR/BSPT 6 Pkg-B und 29 plan.	n both 32 KV ea D/C a line at t new AC V GSS KM) NIT CL/201 er state	D/C	single	220kv	СКМ-10 КМ	work is in progress
construction KV D/C trans line fro Banka(BSP Banka(new) NIT 18/PR/BSPTC 30	n of 132 mission m TCL)- against	D/C	single	132KV	RKM=30KM	ckt. 1=21.11.2017 ckt.2-22.11.2017
Construction KV D/C Sa New) Khagaria( Transmissid with ACSR Conductor (, Route Ler 80KM) on t basis under 31 Plan.	harsa( - New) on line Zebra AC Approx ngth- urnkey r State	D/C	single	220kv	RKM=80KM	Work is yet to be awarded.Itemwise details will be provided after award of work.
Construction KV Transmiss (2-phase) Jamalpur (BS) Jamalpur (T route length (4.0 Km thr overhead and throug Undergroun cable) and ( associated J Line bay at Ja invited vide N 47/PR/BSPTC	sion line from PTCL) to 'SS) of 5.0 KM rough d 01 KM AC h d XLPE 01 no. 132 KV imalpur I.I.T No-	s/c	single	132KV	RKM=5KM	Work is yet to be awarded.Itemwise details will be provided after award of work.

			[				
33	Re-conductoring of following transmission lines with HTLS(equivalent to Panther) conductor on turnkey basis invited vide Tender No.113/PR/BSPTCL/2 018 :- 1. 132 KV S/C Kahalgaon (BSPTCL)- Kahalgaon (BSPTCL)- Kahalgaon (NTPC) Trans Line.(CKM- 7KM) 2. 132 KV S/C Kahalgaon-Sabour Trans Line (CKM- 27KM)	AC	s/c	single	132KV	CKM=34KM	Work is yet to be awarded.Itemwise details will be provided after award of work.
33		10	D/C	C' 1	220	107	07.00.2010
24	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	AC	D/C	Single	220	107	07.08.2018
34		10	D/C	Q: 1	220	<i></i>	TT 1 1
35	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	AC	D/C	Single	220	65	Tender under progress
		AC	D/C	Single	132	40	Tender under
36	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						progress

		AC	D/C	Single	132	20	Tender under
	Construction of	AC	D/C	Single	152	20	
	LILO of one Ckt						progress
	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						
37							
		AC	S/C	Single	132KV	40	Work under
							progress
	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.						
38							
		AC	D/C	Single	220KV	200KM	Tender under
	Construction of						progress
	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						
39	2010						
39							

		AC	D/C	Single	132KV	50KM	Tender under
	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.						progress
40		Tupo of Line	D/C	1	220	48	Lindor Drograd
	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/BSPT CL/2018	Type of Line AC/HVDC	Dic	1	220	48	Under Progress
	132KV DCSS Transmission Line from GSS Samastipur (New) to Shahpur Patori against NIT No.81/PR/BSPT CL/2014	AC	S/C	Single	132KV	31KM	02.05.2018
	132KV S/C Kuseshwarsthan to Benipur against NIT No.81/PR/BSPT CL/2014	AC	S/C	Single	132KV	35.55Km	-

		AC	D/C	Single	132KV	10KM	
		AC	D/C	Single	132K V	IUKM	_
132 Trar Line Pant cond betw kV I Gric and Cha (Gau Sub 10K NIT	ductor ween 132/33 Darbhanga d Substation 132/33 kV undanpatti ngwara) Grid station (RL- SM)against ' No PR/BSPTCL/						
44			2.10				
220 Tran 220, GSS (Nev 220, GSS with Moo Con (Ap) Len, agai 62	hstruction of KV D/C nsmission e from /132/33 KV S Raxaul w) to /132/33 KV S Gopalganj n Twin ACSR ose hductor prox Line gth 80RKM) inst NIT No: /BSPTCL/20	AC	D/C	Twin	132Kv	80RKM	Tender under progress
Con (i) 2 Trar Line Sita to 2: KV Mot Twi Moc Con (Ap, Len, RKI (ii) Trar line Sita to 1: GSS Run with	220 KV D/C nsmission e from GSS marhi (New) 20/132/33 GSS tipur with in ACSR ose aductor prox Line gth -54 M) 132 KV D/C nsmission from GSS marhi (New) 32/33 KV	AC	D/C	Sitamarhi (New) to 220/132/33 KV GSS Motipur- Twin and GSS Sitamarhi (New) to 132/33 KV GSS Runnisaidpur- single			Tender under progress

			1				
	second circuit	AC	D/C	Single	132KV	i) 132KV	22.09.2018
	stringing of:					Pandaul -	
	i) 132KV					Madhubani	
	Pandaul -					Transmission	
	Madhubani					line-14.5CKM	
	Transmission					ii) 132KV	
	line.					Madhubani -	
	ii) 132KV					Jainagar	
	Madhubani -					Transmission	
						line-33CKM	
	Jainagar						
	Transmission					iii) 132KV	
	line.					Jainagar -	
	iii) 132KV					Phulparas	
	Jainagar -					Transmission	
	Phulparas					line-50CKM	
	Transmission					iv) 132KV 2nd	
	line.					Circuit	
	iv) 132KV 2nd					stringing from	
	Circuit stringing					tapping point &	
	from tapping					LILO of	
	point & LILO of					Chhapra –	
	Chhapra –					Siawan Line to	
47	-					Ekma GSS-	
		AC	s/c	Single	132kv	19.50km	
	Construction of			~8		- /	-
	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						
48							
		AC	D/C	1	132	31	Order to be
	Construction of						placed
	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						
			1				
49	Length-31 RKM)						

		AC	D/C	1	132	10	Order to be placed
	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)						placed
50	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.		D/C	Twin	220 KV	240	Yet to be awarded

		1	1	r		r	
	(i) Construction	AC	D/C		220 KV	230	Yet to be
	of 220 KV D/C						awarded
	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).						
54	&						
		AC	D/C	Single	220 KV		Yet to be
	Construction of						charged
	(i) 220KV D/C						charged
	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						
55							
	132 KV S/C	AC	S/C	Single	132 KV	4	25.01.2017
	Purnea –						
	SaharsaLilo at						
56	Banmankhi						
		AC	S/C	Single	134 KV	30	02-02-2017
	LILO of 132 KV			~			
	Purnea -						
	Forbesganj line						
	at						
	Rajwara(Chahata						
	pur) for 132/33						
	KV Triveniganj						
	GSS						
57	aan						
5/	100 777 01-	AC	S/C	Simals	120 KV	22	20.05.2017
	132 KV S/C	AC	S/C	Single	132 KV	23	29.05.2017
	Bikramganj –						
	Piro TL against						
	NIT No.						
	35/PR/BSPTCL/						
58	2015						
	132 KV D/C	AC	D/C	Single	132 KV	60	25.12.2016
	Phulparas –			Ŭ			
	sapoul Lilo at						
59	Nirmali TL						

	1					Γ.	· · · · · · · · · · · · · · · · · · ·
60	132 KV D/C Begusarai – BakhariLilo at Manjhaul TLNIT No. 35/PR/BSPTCL/ 2015		D/C	Single	132 KV	4	18.05.2017
	132 KV D/C Begusarai – BakhariLilo at Ballia NIT No. 35/PR/BSPTCL/ 2015	AC	D/C	Single	132 KV	15	04.05.2017
	132 KV S/C Purnea – KatiharLilo at Manihari NIT No. 35/PR/BSPTCL/ 2015	AC	S/C	Single	132 KV	23	19.11.2017
	132KV D/C Begusarai - Bakhari Line against NIT No. 35/PR/BSPTCL/ 2015	AC	D/C	Single	132 KV	80	16.11.2017
63	Second circuit stringing of 132 KV Madhepura- Sonebarsa tr. Line (50.5 CKM) against NIT No. 76PR/BSPTCL/2 015		S/C	Single	132 KV	50.5	20.10.2017
64	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- Kuseshwarsthan (67.27 CKM) against NIT No. 76PR/BSPTCL/2 015	AC	S/C	Single	132 KV	67.27	13.10.18

132 KV D/C Thakurganj- Araria Transmission Line with ACSR Panther Conductor (Line Length - 86 RKM) against NIT No 52/PR/BSPTCL/ 67ACD/CSingle132 KV172672018ACD/CSingle132 KV104	Tender under Process
Araria Transmission Line with ACSR Panther 	Process
Transmission Line with ACSR Panther Conductor (Line Length - 86 RKM) against NIT No 52/PR/BSPTCL/ 672018Image: Conduct of the second	
Line with ACSR Panther Conductor (Line Length - 86 RKM) against NIT No 52/PR/BSPTCL/ 67 2018 AC D/C Single 220 Kv 104 220 KV D/C Kishanganj (New)-	
Panther Conductor (Line Length - 86 RKM) against NIT No 52/PR/BSPTCL/ 67     AC     D/C     Single     220 Kv     104       220 KV D/C Kishanganj (New)-     AC     D/C     Single     220 Kv     104	
Panther Conductor (Line Length - 86 RKM) against NIT No 52/PR/BSPTCL/ 67     AC     D/C     Single     220 Kv     104       220 KV D/C Kishanganj (New)-     AC     D/C     Single     220 Kv     104	
Conductor (Line Length - 86 RKM) against NIT No 52/PR/BSPTCL/ 67     AC     D/C     Single     220 Kv     104       220 KV D/C Kishanganj (New)-     AC     D/C     Single     220 Kv     104	
Length - 86 RKM) against NIT No 52/PR/BSPTCL/ 67 2018 AC D/C Single 220 KV D/C Kishanganj (New)- NC	
RKM) against NIT No     RKM) against S2/PR/BSPTCL/       67     2018       2018     AC       D/C     Single       220 KV D/C Kishanganj (New)-	
NIT No     Signal       57     2018       2018     AC       220 KV D/C       Kishanganj       (New)-	
52/PR/BSPTCL/ 2018     AC     D/C     Single     220 Kv     104       220 KV D/C Kishanganj (New)-     AC     D/C     Single     220 Kv     104	
67     2018     AC     D/C     Single     220 Kv     104       220 KV D/C Kishanganj (New)-     AC     D/C     Single     220 Kv     104	
220 KV D/C     AC     D/C     Single     220 Kv     104       Kishanganj     (New)-     Image: Constraint of the second seco	
220 KV D/C Kishanganj (New)-ACD/CSingle220 Kv104	
220 KV D/C Kishanganj (New)-	Tender under
(New)-	Process
(New)-	
Thataganj	
Transmission	
Line with ACSR	
Zebra Conductor	
(Line Length - 52	
RKM) against	
NIT No	
52/PR/BSPTCL/	
2018	
68	
AC D/C Single 220 Kv 28	Tender under
Construction 220	Process
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	
69	
AC D/C Single 132 KV 30 Ckm	20.05.2017
132 KV D/C T/L	20.03.2017
from Motihari	
(400 KV) to	
Motihari	
(BSPTCL)	
against NIT No	
403/PR/BSPTCL	
/2013 Pkg A	
70 70	20.06.2017
	30.06.2017
132 KV D/C T/L         AC         D/C         Single         132 KV         80 Ckm	
132 KV D/C T/L         AC         D/C         Single         132 KV         80 Ckm           from Motihari         D/C         Single         132 KV         80 Ckm	1
from Motihari	
from Motihari (400 KV) to	
from Motihari (400 KV) to Bettiah against	
from Motihari (400 KV) to Bettiah against NIT No	
from Motihari (400 KV) to Bettiah against	

	132 KV D/C T/L from Motihari (400 KV) to Raxaul against NIT No 403/PR/BSPTCL	AC	D/C	Single	132 KV	115 Ckm	31.10.2017
72	/2013 Pkg C						
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
	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/	AC	S/C	Single	132 KV	40 Ckm	
74	2014						
	LILO of 132 KV S/C of Jainagar- Phulparas Transmission Line at upcoming Jhanjharpur GSS NIT No 82/PR/BSPTCL/ 2014		S/C	Single	132 KV	70 Ckm	
75							
	Construction of Four nos of 132 KV single circuit transmission line (2-Phase strung) from GSS Motipur to TSS 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		S/C	Single	132 KV	17 Ckm	Tender under Process
76							

		10	D/C	C' 1	220 1/1	40 Cl	TT 1 1
	220 KV D/C	AC	D/C	Single	220 KV		Tender under
							Process
	Muzaffarpur(PG)-						
	Garaul						
	Transmission						
	Line with ACSR						
	Zebra Conductor						
	(Line Length-20						
	RKM) against						
	NIT No						
	50/PR/BSPTCL/						
	2018						
77							
		AC	D/C	Single	132 KV	90 Ckm	Tender under
	132 KV D/C	-		8			Process
	Garaul-						11000035
	MahnarTransmis						
	sion Line with						
	ACSR Panther						
	Conductor (Line						
	Length- 45						
	RKM) NIT No						
	50/PR/BSPTCL/						
	2018						
78	2018						
		AC	D/C	Single	132 KV	60 Ckm	Tender under
	LILO of both	AC	D/C	Single	132 K v		
							Process
	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						
79							
		AC	D/C	Single	132 KV	90 Ckm	Tender under
	132 KV D/C			8			Process
	Transmission						1 100000
	line from GSS						
	Chhapra(New)-						
	Ekma with						
	ACSR Panther						
	Conductor (Line						
	Length - 45						
	RKM) NIT No						
	50/PR/BSPTCL/						
	2018						
80							

	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						Process
C I I V	Conductor (Line Length- 20.5 RKM) along with involvement of 1 no of Pile						
	Course detters NITT						
ת 1 /	Foundation NIT No 114/PR/BSPTCL /2018						L
	Reconductoring of 132 KV Kanti (MTPS)- SKMCH D/C Transmission	AC	D/C	Single	132 KV		Tender under Process
1                 	Line with HTLS Conductor (Line Length- 14.2 RKM) NIT No 114/PR/BSPTCL /2018						
1	132KV D/C Kusheshwarsthan- Sonebarsa T/L	AC	D/C	Single	132 KV	75 RKm	08.01.2018
2	220 KV Kishanganj New- Madhepura D/C Tx. Line	AC	D/C	Single	220 KV	142 RKm	10.08.2018
1 1 1	200 KV (D/C) Line between Madhepura to Laukhi with AL- 59 Conductor	AC	D/C	Single			07.06.2018
(	220 KV Purnea (PG) – Begusarai D/C Tx. Line	AC	D/C	Single	220 KV	180 RKm	09.08.2018
	132 KV LILO I/I on one of the CKT of 132 KV BetiaDhanha to Ramanagar GSS	AC	D/C	Single	132 KV		Work under Progress

	Construction of	AC	D/C	Single	132 KV	20 RKm	Work under Progress
88	LILO of one circuit of 132KV Laukahi-Supaul Transmission Line at 132/33 KV GSS Raghopur						
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

-		0	n		1	n	<b>.</b> .
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 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
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- MahnarTransmis 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

		1	1		1		
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	28.0 Ckm	Tender under Process

102	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		
No	Name of Sub- station	Type of Substation Convention		Voltage level kv	No. Of transformers/ Reactors/ SVC etc (with capacity)	No. Of Bays		operation /Putin use	
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			132/33 KV	02 Nos. 50 MVA	05 nos. 132 KV & 09 nos. 33 KV		Under constructi on.	
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			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 constructi on.	
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	

							1	
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/							Associate d line has not been	
State Plan							complete	
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			132 KV				d.	
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/BSPTCI/2018	AIS		220/132/33 KV				Awarding under progress.	
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							Awarding under progress.	
	associated 06 Nos. I32KV Line Bays 03nos. at GSS Biharsharif, 2 nos. at GSS Sheikhpura and D1 no. at GSS Jamui) for 2nd circuit stringing of existing I32 KV Double Circuit Single Strung Fransmission Line ander Biharsharif Circle under State Plan on Turnkey Basis against NIT No D2/PR/BSPTCL/2016/ Single package NIT No. D2/PR/BSPTCL/2016/ State Plan 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 n Bihar on Turnkey Basis against NIT No. D6/PR/BSPTCL/2014. Single package NIT No. D6/PR/BSPTCL/2014. Single package NIT NO. D7/PR/BSPTCL/2014. Single package NIT NO. D7/PR/BSPTCL/2014. Single package NIT NO. D7/PR/BSPTCL/2014. Single package NIT NO. D7/P	associated 06 Nos. L32KV Line Bays 03nos. at GSS 3iharsharif, 2 nos. at SSS Sheikhpura and 1 no. at GSS Jamui) for 2nd circuit stringing of existing L32 KV Double Circuit Single Strung Iransmission Line under Biharsharif Circle under State Plan on Turnkey Basis against NIT No D2/PR/BSPTCL/2016/ Single package NIT No. D2/PR/BSPTCL/2016/ State Plan AIS Bays Construction of 03 three) Nos. 132/33 (V Transformer Bays at GSS Rajgir, Ekangarsarai and Sheikhpura under Special Plan (BRGF) Sicheme of Phase-III, Part-II, (N-1) Compliance for strengthening of Sub- Iransmission System n Bihar on Turnkey Basis against NIT No D6/PR/BSPTCL/2014 . Single package NIT No. D6/PR/BSPTCL/2014 . Single package NIT No. D6/PR/BSPTCL/2014 . Single package NIT No. D6/PR/BSPTCL/2014 . Single package NIT No. Scheme of Phase-III, Part-II, (N-1) Compliance Tr. Bays Construction of 220/132/33 KV, 2x160 + 3x50) MVA, 3SS Asthawan (Dist Valanda) including Residential Quarters With Construction of 210 Nos. 132 CU Line Bays at construction of line bays at Various Grid substations on Furnkey Basis under streaplan: .02 Nos. 132KV line bays at GSS Harnaut, i.02 Nos. 132KV line bays the GSS Harnaut, i.02 Nos. 132KV line bays the GSS Harnaut,	associated 06 Nos. I32KV Line Bays 30hos, at GSS 30harsharif, 2 nos. at SSS Sheikhpura and 1 no. at GSS Jamui) or 2nd circuit tringing of existing I32 KV Double Tricuit Single Strung Transmission Line under Biharsharif Circle under State Plan on Turnkey 3asis against NT No 2/PR/SSPTCL/2016/ State Plan AIS Bays Construction of 03 three) Nos. 132/33 (V Transformer Bays at GSS Rajgir, Exangarsaria and heikhpura under special Plan (BRGF) Scheme of Phase-III, Part-II, (N-1) Compliance Tr. Bays Construction of 220/32/33 KV, 2x160 + 3x50 MVA, SSS Asthawan (Dist Valanda) including tesidential Quarters with Construction of 12 Nos. 220 KV Line Bays at CSS Marianter anys at GSS Harnaut, 1.02 Nos. 132KV line says at GSS Harnaut, 1.02 Nos. 132KV line says at GSS 3ariphari UT No. Line SS Sartina Construction of line says at GSS Harnaut, 1.02 Nos. 132KV line says at GSS Barlphari UT No. Line SS Sartina Construction of line says at GSS Harnaut, 1.02 Nos. 132KV line says at GSS Barlphari UT No. Line SS Sartina Construction of line says at GSS Harnaut, Line CSS Harnaut,	ssociated 06 Nos. 132XV Line Bays 300s. at 65S Sheikhpura and 11 no. at 6SS Jamui) or 2nd circuit tringing of existing 122 KV Double Transmission Line nder Bharsharff Circle under State Pan on Turnkey Basis against NT No 12/PR/BSPTCL/2016/ tate Plan AIS Bays 132 KV Construction of 03 three) Nos. 132/33 V/ Transformer Bays tt GSS Raigin, kangararai and Bihar on Turnkey Basis against NT No 12/PR/BSPTCL/2016/ tict GSS Raigin, kangararai and Bihar on Turnkey Basis against NT No 16/PR/BSPTCL/2014/ Scheme of Phase-III, 7ar-11. (N-1) Compliance for transmission System n Bihar on Turnkey Basis against NT No 16/PR/BSPTCL/2014/ Scheme of Phase-III, 7ar-11. (N-1) Compliance Tr. Bays 132/33 KV 220/132/33 KV, 220/132/33 KV, 220/132/33 KV, 220/132/33 KV AIS 220/132/33 KV Vinconstruction of 12 No 12 No	Sasociated 06 Nos. ISXV Line Bays Ganos. at GSS Misorshard, Zons, at SSS Sheihupura and Di no. at GSS Jamu) or Zhd Grout SSS Sheihupura and Di no. at GSS Jamu) or Zhd Grout Irraul: Single Strung Transmission Line Jano at Michael Sasta against NIT No. JZPR/SSPTCI/2016/ State Plan AIS Bays ISZ W Outher Sasta Sagents NIT No. JZPR/SSPTCI/2016/ State Plan AIS Bays ISZ W Outher Sasta Sagents NIT No. JGPR/SSPTCI/2014/ State Plan AIS Bays ISZ W Outher Sasta Sagents NIT No. JGPR/SSPTCI/2014/ Sasta Sagents NIT No. JG/PR/SSPTCI/2014/ Sasta Sagents NIT No. JG/PR/SSPTCI/2014/ JG/PR/SSPTCI/2	ssociated of No. Jarvelle Langer Book at 655 shirsharly, 2 no. at SSS Neihopura and I. no. at 655 shirsharly, 2 no. at SSS Neihopura at I. no. at 655 shirsharly, 2 no. a	Sacadard of Nor. Jary Van Bay Broot at CSS Sabishardin 7, 20, a. a. SaS Shahphara and In an Tomber Markan 1, 200 Sala and Sana Jary Markan Sas Shahphara and In an Tomber Markan 1, 200 Sana Jary Markan Jary Markan Jary Markan Jary Markan	saccistar of Neu- Sarad Value Fare General Constitution of Neu- Sarad Value Fare Sarad Schule Fare Sara

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	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.					Awarding under progress.	
8		GIS Bays	220 KV	6			
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	
	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)	
11							
12	Construction of 3x50MVA, 132/33KV GSS Ramgarh (Kaimur dist.) and Warislaiganj (Nawada Dist.) on turnkey basis under	AIS	Ramgarh:- 132/33 KV Warishaliganj:- 132/33 KV	Ramgarh:- 03 Trf. Warishaliganj:- 03 Trf.	Ramgarh:- 132 KV(08) & 33 KV (13) Warishaliganj:- 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	28.02.201 7 & 30.03.201 7	
	construction of 3x50 MVA, 132/33 KV GSS Banka(new) and Jamui(new) against NIT.86/PR/BSPTCL/2 015.		132/33 KV	03 nos. each at Banka & Jamui(GSS)	21 nos.	01no. Tr. Charged at GSS Jamui(ne w) on 07.11.201 8	
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.		
	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	18.05.2 017	
	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	20.05.2 017	

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

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

	1	1				I	
Construction of 02 Nos. 220KV line bays at GSS Motipur against NIT 76/PR/BSPTCL/ 2018 under state paln <b>31</b>	AIS		220 KV	0	220KV-02	Tender under progress	
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)			132/33kv	8 (20MVA & 10MVA)	132KV Bays:- 20Nos. 33KV Bays:- 28 Nos.	GSS Nirmali :- 28.12.2 016, GSS Bnaman khi:- 25th Jan 2017, GSS Mnaiha ri : 07.12.2 017, GSS Triveni ganj:- 14.04.2 017	
32 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 :- 27.01.2 017, GSS Teghra:- 31.10.2 018, Simri Bakhtiy arpur:- 02.03.2 017.	
33 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:- 18.10.2 017, GSS Barsoi:- 16.01.2 018, GSS Baisi:- 02.05.2 018, GSS Dhamd aha:- 10.10.2 018	

Work under progresss SDOC- 04.01.2 019 GSS Udaikis anganj- 09.02.2 018
GSS Udaikis anganj- 09.02.2
SDOC- 04.01.2 019 GSS Udaikis anganj- 09.02.2
04.01.2 019 GSS Udaikis anganj- 09.02.2
019 GSS Udaikis anganj- 09.02.2
GSS Udaikis anganj- 09.02.2
Udaikis anganj- 09.02.2
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Saharsa-
09.02.2
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20.08.2
132KV
BAY at
GSS
Kusesh
warstha
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Udakish
anganj,
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in the
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2016.
GSS
Kataiya:
Likely
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· · · ·		r						
		AIS		220KV &		220KV- 02Nos.	Tender	
				132KV		132KV- 04Nos.	under	
	Construction of						Prgores	
	02 nos. 132KV						s	
	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.							
38		220/132/33 KV		220 KV	(2x200 MVA+	220 KV BAYS	Under	
	Construction of				•	:- 12	Progres	
	(2x200 MVA+					132 KV BAYS	8	
	3x50 MVA)					:- 15	~	
	220/132/33 KV					33 KV BAYS :-		
	GSS, Raxaul					18		
	(District-East					10		
	Champaran)							
	complete with							
	SAS and							
	Residential							
	Quarters under							
	State Plan on							
	turnkey basis							
	against NIT							
	No.40/PR/BSPT							
	CL/2018							
39	CL/2010							
		400/220/132 KV	r	400 KV		400 KV BAYS	Under	
	Construction o f					:- 12	Progres	
	(2x500+2x160)					220 KV BAYS	s	
	MVA					:- 11		
	400/220/132 KV					132 KV BAYS		
	GIS Grid Sub-					:- 7		
	Station					33 KV BAYS :-		
	Bakhtiyarpur					6		
	with SAS under							
	turnkey basis.							
	NIT No.							
	73/PR/BSPTCL/							
	2018.							
40	_010.							
		AIS		132KV		2	01 no.	
	132 KV Line						bay	
	Bays at GSS						commis	
	Sitamadhi (02						sioned	
	nos. ).						on	
	AgainstNIT No.						11.04.2	
	07/PR/BSPTCL/						017	
	(1)17	1						
41	2015							

[]		1			1		ı
Construction of 132/33KV GSS Benipur (2x10 MVA) against NIT 62/PR/BSPTCL/ 2014 Package B 42	AIS		132/33KV		5		
Construction of 132/33 KV Grid Sub-station Shahpur Patori (2X20MVA)agai nst NIT 62/PR/BSPTCL/ 2014 Package B 43	AIS		132/33KV	2 NO. 20MVA	5		
2 x160+2x50 MVA,220/132/3 3KV GSS Samastipur(New) NIT No 482/PR/BSPTCL 44 /2013			220/132/33KV	2 No. 160mvA & 2 NO. 50MVA	9	30.07.2 018	
Construction of 02 nos. 132KV line bays at 132/33KV Grid Su-station Masrak aginst NIT 20/PR/BSPTCL/ 2016	AIS		132KV		2	02.12.1	
45 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, Kuseshwarstan, Pandaul, Jainagar 2, Ekma & Phulparas against NIT 04/PR/BSPTCL/ 2016			132KV		Madhubani-2, Kuseshwarstan- 2, Pandaul-2, Jainagar-2, Ekma-1 & Phulparas-1	Jainagar -02 no charged on 14.10.1 7,Panda ul-01 no charged on 15.10.1 7, Madhub ani -02 no charged on 01.11.1 7, Ekma- 01 no. charged	
46						on	

	[	4.10	122/22	T	1 100 1/11 D	
	Construction of	AIS	132/33	Two Transformer(2x	1. 132 KV Bays- 07(seven)	Order to be
	(2x50 MVA)			50MVA)	2. 33KB Bays-	placed
	132/33 KV GSS,				09(Nine)	1
	Palasi (District-					
	Araria) including					
	Residential					
	Quarters on					
	Turnkey Basis					
	under State plan					
	[80:20]					
47						
48		1.77				
	Construction of 2	AIS	220KV	(2x160 + 3x50)	33	17.01.2
	x160+3x50			MVA		017
	MVA GSS					
	Musahari(New)					
49						
	Construction of 2	AIS	220KV	(2x160 + 2x50)	22	20.06.2
	x160+2x50			MVA		018
	MVA					
	,220/132/33KV					
	GSS Laukahi					
50	ODD Edukulli					
		AIS	220KV	(2x160 + 3x50)	31	Yet to
	Construction of			MVA		be
	(2x160MVA+3x)					awarde
	50MVA)					d
	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.					
	2010.					
51		410	22082	(2-160 : 2.50)	22	10.04.2017
	Construction of	AIS	220KV	(2x160 +3x50) MVA	33	10.04.2017
	220 /132 /33 kV			IVI V A		
	Motipur GSS					

			1	-		
		AIS	132/33 KV	1 No10 MVA 1 No50 MVA		One 10 MVA
				1 NO50 MIVA		
					33 KV -07 Nos	Transfo
						rmer
						charged
						on
						13.06.2
						017
	132/33 KV GSS					and
	Ballia agains NIT					another
	No.					50
	63/PR/BSPTCL/					
	2014 Pkg- A					MVA
	U					Transfo
						rmer
						charged
						on
						30.01.1
						8
						5
53						
		AIS	132/33 KV	1 No10 MVA	132 KV-05	50
				1 No50 MVA		MVA
					33 KV -07 Nos	Transfo
						rmer
						charged
						on load
						on
	132/33 KV GSS					12/06/2
	Manjhaul agains					017.On
	NIT No.					e Nos.
	63/PR/BSPTCL/					10
						MVA
	2014 Pkg- A					Transfo
						rmer
						charged
						on
						31.08.2
						017
54						
54		AIS	132/33 KV	2 Nos. 20 MVA	132 KV-05	One 20
		1 2212	152/55 KV		Nos.	MVA
					Nos. 33 KV -07 Nos	
					55 KV -U/ NOS	Charged
	132/33 KV GSS					on
	Bakhari agains					08.08.2
	NIT No.					018
	63/PR/BSPTCL/					another
	2014 Pkg- A					Transfo
	8					rmer yet
						to
						charge.
55		AIC	120/22 1/11	2 No - 50 MM	122 832 05	
	132/33kV Grid	AIS	132/33 KV	3 Nos 50 MVA		yet to be charged
	Sub-Station,				Nos.	
					33 KV -18 Nos	
	Jagdishpur					
	(Bhagalpur New)					
	AGAINST nit					
1	No					
					1	
	10/PR/BSPTCL/					
	2016					

	132/33kV Grid	AIS	132/33 KV	3 Nos 50 MVA	132 KV-08	yet to be c	charged
	Sub-Station				Nos.		
	Korha (Katihar)				33 KV -18 Nos		
	AGAINST nit						
	No						
	10/PR/BSPTCL/						
57	2016						
		AIS	220/132/33 KV	(2x160 MVA+3	220 KV -08	Tender	
	220/132/33 KV				Nos	under	
	GSS Thakurganj				132 KV-12 Nos	Process	
	aginst NIT No				33 KV-13 Nos.		
	35/PR/BSPTCL/						
	2018						
58							
	220/132 KV	AIS	220/132 KV	2X100 MVA	220 KV -8 Nos,	Tender	
	GSS				132 KV-02	under	
	Korha(Katihar)					Process	
	aginst NIT No						
	86/PR/BSPTCL/						
	2018						
59		ATC	 220/122/22 171	1110110	2201-0133	T 1	
	160 ICT	AIS	220/132/33 KV	1X160 MVA	220 kv-01 Nos	Tender	
	Augumentation					under	
	at 220/132/33					Process	
	KV Kishanganj						
	New aginst NIT						
	No						
	86/PR/BSPTCL/						
60	2018						
	two numbers of	AIS	132/33 KV	-	132 KV-04	20.10.2	
	132 KV Line				Nos.	017	
	bays each at						
	Bettiah (132/33						
	KV) GSS and						
	Raxaul (132/33						
	KV) GSS against						
	NIT No						
	403/PR/BSPTCL						
61	/2013 Pkg D						
	-	AIS	132/33 KV	_	132 KV-04	Tender	
		1110	152/55 10		Nos.	under	
	Construction of				1005.	Process	
	Four nos of 132					FIOCESS	
	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						
62							
02		AIS	132/33 KV		132 KV-03	12.06.2	
	Construction of 3	110	1 <i>52/33</i> IX V		Nos.	018	
	Nos of 132 KV				1105.	010	
	Transmission						
	line bays at GSS						
	Begusarai (02						
	Nos) and						
	Bikramganj (01						
	Nos) against						
	NIT No						
	37/PR/BSPTCL/						
	2015 Pkg A						
63							
		1		1			

						-
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.	12.06.2 018	
Construction of 220/132/33 KV (2X160+3x50M VA) GSS at Garaul (Dist. Vaishali) on turnkey basis NIT No 39/PR/BSPTCL/ 2018 65	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	
Construction of bay extension at Laukahi GSS against NIT No.03/2014 66	AIS	220KV		2	06.07.2	2
Construction of 132/33KV Transformer Bay at 132/33 KV Jandaha GSS against NIT No. 08/2014 67	AIS	132KV		1	22.10.2 017	
Construction of bay extension at Madhepura GSS against NIT No.03/2014.	AIS	220KV		4	27.04.2 017	
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	05.02.2 018	
Construction of line bay at GSS Ramnagar, GSS Bettiah, GSS Dhanaha aginst NIT No.78/2014.	AIS	132KV		2	10.09.2 017 (Throu <sub>i</sub> h Main Bus)	g

		1		1		
	AIS		220KV	2	Under	
Construction of					Tenderi	
line bay at					ng	
(i)GSS					Process	
Kishanganj						
(New) aginst Nľ	Г					
(ii) Construction						
of line bay at						
GSS						
ArariaNo.67/201						
8.	L					
71 8.						
	AIS		132KV	12	Under	
			10211		Tenderi	
Construction of					ng	
03 Nos of 132/3	2				ng Process	
KV Transformer					Process	
Bays in						
Biharsharif &						
Dehri-on-sone						
Transmission						
Circle on turnke	y					
basis under State						
Plan against NIT						
122/PR/BSPTC						
/2018 under Stat	e					
Plan						
72	4.10		1001/11	10	X X 1	
	AIS		132KV	12	Under Tau dari	
Construction of					Tenderi	
04 Nos of 132/3	3				ng	
KV Transformer					Process	
Bays in Saran,						
Kosi &						
Bhagalpur						
Transmission						
Circle on turnke						
basis under State	•					
Plan against NIT						
No.						
121/PR/BSPTC	· .					
/2018 under Stat						
Plan						
riali						
73						
	AIS		132KV	12	Under	
Construction of					Tenderi	
05 Nos of 132/3	3				ng	
					Process	
KV Transformer						
Bays in Gaya						
Transmission						
Circle on turnke						
basis under State						
Plan against NIT						
No.						
120/PR/BSPTC						
0010 1 0						
/2018 under Stat	e					
/2018 under Stat Plan	e					
	e					

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 75 /2013 Pkg D	AIS	132/33 KV	-	132 KV-04 Nos.	20.10.2 017
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 <b>76</b>	AIS	132/33 KV	-	132 KV-04 Nos.	Tender under Process
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.	12.06.2 018
77 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 78	AIS	132/33 KV	- -	132 KV-04 Nos.	12.06.2 018
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: Inform	nation required for Pre	vious years , current	year and Ensuring ye	ars		
		Valtage Datio of	Previ	ious Year (March'18)		Current Year
	SLNo	Voltage Ratio of Transformer(KV/KV	Details of Transformers		Det	tails of Transformers
	51 NO.			Total Capacity	Total number	Total Capacity
		,	Total number	(MVA)	rotar number	(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) Invest	ment Plan	(Scheme-wi	se)											(Rs. ir	ı Cr.)
Name of Name	Name of	Approv	ed Outlay		to the begining of ous year		Previo	us year		Current y	ear (RE)	Ensuing Years	s (Projection)	Progressiv expenditure up ensuing	oto the end of
scheme / Project	line/ Sub- station etc	Approved in			Capital	Approved i	n MYT/RE	Actu	lal		Capital		Capital		Capital
		MYT/RE	Actual*	Capitalization	Expenditure (CWIP)	Capitalization	Capital Expenditure (CWIP)	Capitalization	Capital	· ·	Expenditure (CWIP)	Capitalization	(CWIP)	Capitalization	(CWIP)
Total	<u> </u>				**			**	**						

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

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

#### Form No: F5

## 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

						Rs Ci	rores	
	Particulars	Previous	Year	Current Year	Ensuing years (Projection)			
		Approved in MYT/RE	Actual	(i. e. RE)	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

Particulars	Capital C Appro		Capital Cost Incurred		Capital cost Admitte	
	Currency	Amount	Currency	Amount	Currency	Amount
Loans						
Loan-I						
Loan-II						
and so on						
Total Loan						
Equity						
Foreign						
Domestic						
Total Equity						
Total Captal cost						
Debt : Equity Ratio				İ		

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:		completed cost
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		
Capital Cost excluding IDC, FC, FERC & Hedging Cost		
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)		
IDC, FC, FERC & Hedging Cost		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. crores)		
Total IDC, FC, FERC & Hedging Cost (Rs. crores)		
Rates, taxes & duties considered		
Capital cost Including IDC, FC, FERC & Hedging Cost		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. crores)		
Capital cost Including IDC, FC, FERC & Hedging Cost (Rs. crores)		
Schedule of Commissioning		
((Scheduled DOC elementwise))		
COD of last Unit/ Block		
Note:		
<ol> <li>Copy of approval letter should be enclosed.</li> <li>Details of Capital cost are to be furnished as per Form F5-5 or Form 14(Additional Capitalization) as</li> </ol>		
applicable.		
3. Details of IDC & Financing Charges are to be furnished as per Form 20		

Project Form No:F5

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

	Name of Transmission Licensee				
No	(i) Break -up Project Cost for Tr Break Down	As per original estimates	Actual capital expenditure(Openi ng)	Vaiation (B-C)	Rs. 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		Due to change in layout and as per site condition & engineeri ng
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	
		247450034		ľ	
	construction of 01 no. 132 KV Transformer Bay (Hybrid type) and 01 no. 33 KV				Due to decrease in qunatity of structure, cable, earthing material, fire wall etc as per actual site requirem
6	Transformer Bay at GSS Gaighat under BRGF, Phase-III, Part-II (N-1) Compliance.	43304508	41027377	2277131	ent.
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	
	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	526962575	526962575	0	
8	scheme	536862575	536862575	0	Due to increase in quantity of structure, cable & terminati on kit as per actua site
	Procurement and construction of 33 KV line bays in form of Indoor VCB panels				requirem
9	at 08 nos. of AIS sub-station under transmission circle, Biharsharif under ADB scheme	226105022	377350133	-51353500	nt and layout
9	scheme Capacity augmentation of 220/132/33 kV & 132/33 kV Grid Substation Madhepura, Naugachia, Vaishali, Gangwara, Jamui, Ara and Bihta under ADB	226105932	277358432	-51252500	ayout.
10	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	
		10/0230420	107 02 30 420	ı 0	l

	Renovation & Up gradation of protection and control system of 220/132 kV grid				
12	Substation Biharsarif, Fatuha, Bodhgaya, Dehri-on-sone, Khagaul and 132/33kV Grid Substation Kataiya on turnkey basis under PSDF Scheme	696621597	696621597	0	
	one substation ratarya on tanney basis and it sub-serence	0,0021077	0,00210,7		l work
					included for
					reconduc
					oring of
					existing panther
					conducto
					by ACCC HTLS
					(panther
					equivale
					t) conducto
					in 132KV
					Gauricha Mithapu
					& 132KV
					Gauricha
	A. Re-conductoring of existing 132 kV Fatuha-Gaighat (D/C) Transmission line				Fatuha Transmis
	with ACCC HTLS Panther Equivalent Conductor.(Line Length – 27 KM)				ion Line
	B. Re-conductoring of existing 132 kV Gaurichak – Jakkanpur (D/C)				from GSS
	Transmission Line with ACCC HTLS Panther Equivalent Conductor.(Line Length – 18 KM)				Gauricha to LILO
	under State Plan				Tower
13		470330289	556999011.7	-86668722.71	(Loc No -
					Due to
					construct
					on of 01 addition
					pile
					foundatio
					n, Increase
					in
					quantity of civil
					volumes
					pertainin
					to pile foundati
					ns and
					increse in span of
	construction of 132 KV D/C transmission line over river crossing span on ACSR				line as pe
14	Panther conductor (approx line length – 6 KM) under deposit head of NBPDCL & SBPDCL	140188417.4	152073749.2	-11885331.76	actual site
14	JU DEL	14010041774	152015147.2	-11005551.70	contaction
	design, manufacture, testing, supply & delivery of of 20 nos. 220 KV SF6 Circuit				
15	Breaker O&M head	23482000	23482000	0	
	design, manufacture, testing, supply & delivery of 220 KV CTs, 220 KV PTs and				
16	132 KV PTs under O&M head	34628368.5	34628368.5	0	
	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	(3/3/03+10	(2(2(0)4 10	-	
17		63626834.18	63626834.18	0	
	Design, manufacture, testing, supply & delivery of 60 Sets, 220 KV Gapless				
18	Lightning Arresters under O & M Head.	42.48 Lac			
	Capacity augmentation of different GSS by Addition /Replacement by 200 MVA		T		
	Power Transformer alongwith associated bays on Turnkey Basis at GSS Khagaul				
19	& Sipara under State Plan	65.46 Cr			
15					
	Re-conductoring of following transmission lines with HTLS (equivalent to				
	Re-conductoring of following transmission lines with HTLS (equivalent to Panther) conductor on turnkey basis:-				
	(1) Circuit 1 & Circuit 2 of 132 KV Biharsharif – 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				
20		14.97 Cr.			
					•

				I	
	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				
21		141.03 Cr.			
22	А	В	с	D	E
	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				
23	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	o	
	Construction 132 KV D/C Sonenagar (New)-Aurangabad Transmission line RL-				
24	22KM under BRGF phase-III scheme (N-I) NIT No. 59/PR/BSPTCL/2014 Pkg-B	135750925	135750925	0	
					Due to
					Multicircu it Tower
	Construction of 132KV D/C Ara GSS-Jagdishpur GSS Trans Line RL-25KM under				and its
25		149527308	210717948.2	61190640.24	
	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)				
26	under state plan[80:20]. NIT No. 55/PR/BSPTCL/2018	40.18Cr.			
					Due to
					Earthmat
					design
					and extra work of
					constructi
					on of
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	Culvert at main gate
	Second circuit stringing of existing 04 nos of 132KV Double circuit Single strung	17.625 Cr.	20.35 Cr.	2.725 Cr.	- g
	transmission line:-				Additiona
	1) 132KV Biharsharif-Ekangarsarai- Hulasganj(Except LILO point to Ekangarsasari)(48.14CKM)				l scope of work
	2)132KV Blharsharif- Nawada(48.89CKM)				included
	3)132KV Blharsharif- Sheikhpura(38.78CKM)				which
	4)132KV Jamui- sheikhpura(51.9CKM) under State Plan on Turnkey Basis against NIT No 74/PR/BSPTCL/2015				involves following
					I. Gantry
					extension
					at 06 locations
					at loc. No
					G1, G2,
					G3, G4, G5 & G6
					at 132 KV
					D/C Bibarshar
					Biharshar f-
					Hulasganj
					line.
					II. Diversion
					of OPGW
					of 220 KV
28			<u> </u>		Biharshar
29	Bays		I		

30	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	84016500	79332438.4	-4684061.6	Due to variation in quantity as per detailed engineeri ng during execution
31	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	59654200	56586241.4	-3067958.6	Due to variation in quantity as per detailed engineeri ng during execution
	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/BSPTCI/2018				
32	<ul> <li>Construction of following associated 220KV &amp; 132KV D/C Transmission Lines of 220/132/33KV GSS Asthawan (Dist. Nalanda) on Turnkey Basis:-</li> <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 - 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 No58/PR/BSPTCL/2018</li> </ul>	Tender yet to be awarded/ Item wit	se details may be pro	vided after award	ing of work.
33	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 .				
	Construction of 132 KV D/C Bakhtiyarpur (New) to Harnaut (New) Transmissionline (15 RKM) & Construction of 132 KV D/C Bakhtiyarpur (New) to Baripahari Transmission line (38 RKM) under state plan (80:20):- Line1:Construction of 132 KV D/C Bakhtiyarpur (New) to Harnaut (New) Transmissionline (15 RKM) Line2:Construction of 132 KV D/C Bakhtiyarpur (New) to Baripahari Transmission line (38 RKM) NIT No. 78/PR/BSPTCL/2018				

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 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 against NIT No72/PR/BSPTCL/2015.	73743975	74060775	-316800	Due to additional tower hanger.
38	Construction of 08 nos. 132 KV Line bays each at -Belaganj 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 trnamsission line unedr State Plan against NIT No01/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 unedr State Plan against NIT No 02/PR/BSPTCI/2017.	98067732.6	97427690.21	640042.392	As per engineeri ng
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 No68/PR/BSPTCL/2014.	242288750	242288750	0	Till date no variation issued.
40	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 No26/PR/BSPTCL/2017	48375870	48375870	0	Till date no variation issued.
2	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 No24/Package D-1/ADB/BSPTCL/2016.	171838085	171838085	0	Till date no variation issued.

,					
45	Reconductoring of following 132KV Transmission lines on turnkey basis 1. 132KV S/C Motihari Bettiah 43.04Km 2. 132KV S/C Ramnagar Valmikinagar Surajpura 75.18Km. 3. 132KV S/C Samastipur Hajipur Shitalpur LILO point Chapra 121Km 4. 132KV S/C Purnea Saharsa 101.34Km 5. 132KV S/C Forbesganj Kataiya KOSI 39.79Km 6. 132KV S/C Forbesganj Purnea 71.42Km against ICB No31/Package K- 1/ADB/BSPTCL/2016.	398931873.1	398931873.1	o	Till date no variation issued.
	Reconductoring of following 132Kv Transmission lines on turnkey basis 1. 132KV S/C Dehri Sasaram Kudra Karmnasa Transmission line 90.62Km 2. 132KV D/C Sonenagar Garhwa Transmission Line uo to Bihar border near Nabinagar 17.74Km 3. 132KV S/C Hathidah Sheikhpura Transmission line 28.31Km 4. 132KV S/C Lakhisrai Jamalpur Transmission line 44.37Km 5. 132KV S/C Lakhisrai Jamalpur Transmission line 44.37Km 5. 132KV S/C Jahanabad GSS to looping point of 132KV D/C Patna Sipara 47.5Km 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 No33/Package M-1/ADB/BSPTCL/2016.	371531718.6	371531718.6	o	Till date no variation issued.
46	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	6871185.44	6871185.44	0	Till date no variation issued.
48	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 No77/PR/BSPTCI/2018	153.68 Cr			
49	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 No109/PR/BSPTCI/2018	79.94 Cr			
	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 No110/PR/BSPTCI/2018	67.80 Cr			
50	Construction of 220 KV D/C trans. line for LILO of both ciruits 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	51.73 Cr			

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52	3X50 MVA,132/33 KV GSS Kerpa aginst NIT no:- 08/PR/BSPTCL/2017	31.69 Crore	o	0	No variation till yet.
	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.
53	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 Transmiss ion 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 Transmiss ion line reduced.
	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
57	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 rearrange d at other vacant location of GSS for avoiding residentia l area & hindrance free approach for outgoing 33KV Lines for Discoms

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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 rearrange d at other vacant location of GSS for avoiding residentia l 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 30/Package J-1/ BSPTCL/ADB /2016	60.36 Crore	70.74 Crore	10.38	Location of Outgoing Feeder at different GSS sites were rearrange d at other vacant location of GSS for avoiding residentia l area & hindrance free approach for outgoing 33KV Lines for Discoms
	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.
62	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 (DisttKatihar) (Route length= 20 KM).against NIT87	Rs. 20,25,58,592.3	Rs. 20,25,58,592.3	o	no variation
70	Construction of 132 KV LILO line on one line of 132 KV Sabour-Sultanganj transmission line to new GSS near Nathnagar (DisttBhagalpur) (Route length= 10 KM).against NIT87	Rs.5,33,04,146.00	Rs.5,33,04,146.00	0	
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 engineeri ng, 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 Quantity
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 engineeri ng, approved SLD and layout

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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 engineeri ng, 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 Work is
	Construction of 220 KV D/C Saharsa( New)- Khagaria(New) Transmission line with				yet to be awarded.I temwise details will be provided after
	ACSR Zebra Conductor (Approx Route Length-80KM) on turnkey basis under State		Rs.		award of
77	Plan. Against NIT No.57/PR/BSPTCL/2018	Rs. 114,00,00,000.00	114,00,00,000.00	Rs.0.00	work.
	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		D 40 50 00 000 00	8.000	Work is yet to be awarded.I temwise details will be provided after award of
78	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	KS.U.UU	work. Work is
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	P- 0.00	yet to be awarded.I temwise details will be provided after award of work.
80 A1	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	Rs.16,25,00,000.00 Construction of 220 KV D/C Trai	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>Project) to</b>
1	Preliminary works				
1.1 1.2	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil		<u> </u>		
1.2	Total Preliminary works				
2	Transmission Line material				
2.1	Towers Steel Conductor				
2.3	Earth Wire				
2.4	Insulators		<u>_</u>		
2.5 2.6	Hardware Fittings Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection, Stringing & Civil works				
1 1	Total Transmission Line Back-st-l-	1			
3	Total Transmission Line Materials Taxes and Duties				1
3.1	Taxes and Duties Custom Duty				
	Taxes and Duties Custom Duty Other Taxes & Duties				
3.1 3.2	Taxes and Duties Custom Duty	765785682.5	1057803158	-292017475.3	Change in line length as per site requirement and quantity variation
3.1 3.2 A2	Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total Amount	765785682.5 Construction of 220 KV D/c tran			line length as per site requirement and quantity variation
3.1 3.2 A2 1	Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total Amount Preliminary works				line length as per site requirement and quantity variation
3.1 3.2 A2	Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total Amount				line length as per site requirement and quantity variation

				1	
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				<u> </u>
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				
<b>├</b> ──┤	*Pertaining to Transmission	940225252.4	NII	NT A	
42	Total Amount	849325372.4	NIL	NA	de la com l
A3	Destination	Construction of LILO of one Ck	t of 132 KV D/C Kg	shanganj (Old)-Foi	bisganj
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		<u> </u>		
	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7 2.8	Spares Erection Stringing & Civil works				
2.8	Erection , Stringing & Civil works				
3	Total Transmission Line Materials Taxes and Duties		ļ		
3.1					
3.1	Custom Duty Other Taxes & Duties		ļ		
3.2					
┝──┤	*Pertaining to Transmission Total Amount	179300000	NIL	NA	
A-4	Transmission Line				alina
A-4 1	Preliminary works	Construction of Loop In Loop O	ut arrangement of 1	32 KV Transmissio	niine
1.1	•				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works				
2					
2.1	Transmission Line material Towers Steel				
2.1	Conductor				
2.2	Earth Wire				
2.3	Insulators				
	Hardware Fittings				
2.5 2.6	Conductor & Earthwire accessories				
2.0					
2.7	Spares				
2.8	Erection , Stringing & Civil works Total Transmission Line Materials				
3					
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				Duch
	Total Amount	106521968.2	168185109.2	-61663141	Due to quantity variation
	Transmission Line				
A-5	Transmission Line	Countries - ( 220 M/ D/C Color	- (N		
1	Broliminany works	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1 1	Preliminary works	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1.1	Dessign & Engineering	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1.1 1.2	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1.2	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1.2 2	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1.2 2 2.1	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1.2 2 2.1 2.2	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1.2 2 2.1 2.2 2.3	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1.2 2 2.1 2.2 2.3 2.4	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1.2 2 2.1 2.2 2.3 2.4 2.5	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1.2 2 2.1 2.2 2.3 2.4 2.5 2.6	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1	Dessign & Engineering         Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Conductor & Earthwire accessories	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T		
1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1	Dessign & Engineering         Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Conductor & Earthwire accessories	Construction of 220 KV D/C Sahar	sa(New)-Begusarai T	ransmission line wi	th ACSR
1.2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total Amount	165.64 Crore	NIL	N/A	th ACSR
1.2 2.1 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 A-6	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total Amount Transmission Line		NIL	N/A	th ACSR
1.2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.11 3.2 A-6 1	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total Amount Total Amount Preliminary works	165.64 Crore	NIL	N/A	th ACSR
1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.2 3.1 3.2 A-6 1 1.1	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total Amount Transmission Line Preliminary works Dessign & Engineering	165.64 Crore	NIL	N/A	th ACSR
1.2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.11 3.2 A-6 1	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total Amount Total Amount Transmission Line Preliminary works Dessign & Engineering Preliminary works Dessign & Engineering Preliminary works Custom Duty	165.64 Crore	NIL	N/A	th ACSR
1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 3.1 3.2 4.6 1 1.1 1.2	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total Amount Total Amount Preliminary works Dessign & Engineering Preliminary works	165.64 Crore	NIL	N/A	th ACSR
1.2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 4.6 1 1.1 1.1 1.2 2	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total Amount Total Amount Preliminary works Dessign & Engineering Preliminary works Transmission Line Material	165.64 Crore	NIL	N/A	th ACSR
1.2 2.1 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 4-6 1 1.1 1.2 2 2 2.1	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total Amount Total Amount Transmission Line Preliminary works Dessign & Engineering Preliminary works Transmission Line material Total Preliminary works Transmission Line Trate Second Seco	165.64 Crore	NIL	N/A	th ACSR
1.2 2 2.1 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 4.6 1 1.1 1.2 2 2 2.1 2.2	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total Amount Total Amount Total Amount Preliminary works Dessign & Engineering Preliminary works Transmission Line material Total Preliminary works Transmission Line material Total Preliminary works Total Transmission Line Preliminary works Dessign & Engineering Preliminary works Transmission Line material Total Preliminary works Custor Dity Conductor	165.64 Crore	NIL	N/A	th ACSR
1.2 2.1 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 4.6 1 1.1 1.1 1.2 2 2 2.1	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total Amount Total Amount Transmission Line Preliminary works Dessign & Engineering Preliminary works Transmission Line material Total Preliminary works Transmission Line Trate Second Seco	165.64 Crore	NIL	N/A	th ACSR

25	Hardware Eittinge		1		
2.5 2.6	Hardware Fittings Conductor & Earthwire accessories				
2.0	Spares				
2.8					
2.0					
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
					Tender
		Total Amount     42.69Crore     NIL     N/A     Progre       Transmission Line     Second circuit stringing of 220 KV DCSS Darbhanga (400/220 KV) – Samastipur (Ne     Image: Constraint stringing of 220 KV DCSS Darbhanga (400/220 KV) – Samastipur (Ne       Preliminary works     Image: Constraint stringing of 220 KV DCSS Darbhanga (400/220 KV) – Samastipur (Ne     Image: Constraint stringing of 220 KV DCSS Darbhanga (400/220 KV) – Samastipur (Ne       Preliminary works     Image: Constraint stringing of 220 KV DCSS Darbhanga (400/220 KV) – Samastipur (Ne     Image: Constraint stringing of 220 KV DCSS Darbhanga (400/220 KV) – Samastipur (Ne       Total Preliminary works     Image: Constraint stringing of 220 KV DCSS Darbhanga (400/220 KV) – Samastipur (Ne     Image: Constraint stringing of 220 KV DCSS Darbhanga (400/220 KV) – Samastipur (Ne       Total Transmission Ine material     Image: Constraint string of 220 KV DCSS Darbhanga (400/220 KV) – Samastipur (Ne     Image: Constraint string of 220 KV DCSS Darbhanga (400/220 KV) – Samastipur (Ne       Conductor     Conductor     Image: Constraint string of 220 KV DCSS Darbhanga (400/220 KV) – Samastipur (Ne     Image: Constraint string of 200 KV DCSS Darbhanga (400/200 KV)     Image: Constraint string of 200 KV DCSS Darbhanga (400/200 KV)       Conductor     Earth Wire     Image: Constraint string of 200 KV DCSS Darbhanga (400/200 KV)     Image: Constraint string of 200 KV DCSS Darbhanga (400/200 KV)       Spares     Image: Constraint string of 200 KV DCSS Darbhanga (400 KV)     Image: Constraint string of 200 KV DCSS Darbhanga (400 KV)       Total Tran			
	Total Amount	42 .69Crore	NIL	N/A	Progress
A-7		Second circuit stringing of 220 KV L	DCSS Darbhanga (400	/220 KV) – Samasti	pur (New)
1	•				
1.1 1.2					
1.2					
2					
2.1					
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators				
2.5	Hardware Fittings				
2.6					
2.7					
2.8					
3 3.1					
-	•				
3.2					}
<u>├</u>					Tender
	Total- Transmissionlines	8090000	NIL	N/A	Progress
				<i>.</i>	
A-8	CAPACITOR BANK	211302498.4	215576287 3		
<b>-</b> 0		211302430.4	213570207.5	4275700.5	QUANTIT
					GST RATE.
	Transmittation the s		CCC Compating (No.	) to Chabasa Datasi	a sea la sea Alla
A-9	Transmission Line	132KV DCSS Transmission Line from	GSS Samastipur (New	) to Shahpur Patori	-
	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 Kuseshwarsthan to	Beninur against NIT	No 81/PR/RSPTCL/2	
A 10					Quantity
	Total Amount	15,13,79,206.08	17,92,86,906.38	(-) 2,79,07,700.3	variation
A-11	Transmission Line	Construction of 132 kV D/C Transm	ission Line with ACSR	Panther conductor	
					Quantity
	Total Amount	6,11,72,329.38	9,84,67,896.61	-37295567.23	variation
A-12	Transmission Line	secon	d circuit stringing of:	-	
	Total Amount	9,65,53,900	9,65,53,900	0	
A-13	Transmission Line	Construction of 132 kV S/C Trans	smission Line on D/C	Tower with ACSR P	
	Total Amount	10,42,52,851.76	12,42,84,340.35	-20031488.59	Quantity
					variation
A-14		Construction of 220 KV D/C Transmis			
A 15		147.81Cr	NIL	NA n GSS Sitamarhi (No	NA NA
A-15		Construction of (i) 220 KV D/C T 119.65Cr	ransmission Line from NIL	n GSS Sitamarhi (Ne NA	w) to
Α		Construction of 132 KV D/C Transm			
<u> </u>	Total Transmission Line Materials         3       Taxes and Duties         1       Custom Duty         2       Other Taxes & Duties         *Pertaining to Transmission         2       Other Taxes & Duties         *Pertaining to Transmission         1       Transmission Line         1       Preliminary works         2       Preliminary works         1       Dessign & Engineering         2       Transmission Line material         1       Total Preliminary works         2       Conductor         3       Earth Wire         4       Insulators         5       Hardware Fittings         6       Conductor & Earthwire accessories         7       Spares         8       Erection , Stringing & Civil works         3       Taxes and Duties         1       Custom Duty         2       Other Taxes & Duties         3       Taxes and Duties         1       Custom Duty         2       Other Taxes & Duties         1       Custom Duty         2       Other Taxes & Duties         4       Transmission Line <t< td=""><td>52.80Cr</td><td>NIL</td><td>NA</td><td>NA</td></t<>	52.80Cr	NIL	NA	NA
			Actual capital		Reasons
			expenditure(Openi		for
No	Break Down	As per original estimates	ng)	(B-C)	Variation
	Α	В	с	D	E
Α	Transmission Line	Construction of 220 KV & 132 KV D	/C Transmission line	for evacuation of p	ower from
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
		1			
-	Total Preliminary works				
2	Total Preliminary works Transmission Line material				
2.1	Total Preliminary works Transmission Line material Towers Steel				
2.1 2.2	Total Preliminary works Transmission Line material Towers Steel Conductor				
2.1	Total Preliminary works Transmission Line material Towers Steel				
2.1 2.2 2.3 2.4	Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators				
2.1 2.2 2.3	Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire				
2.1 2.2 2.3 2.4 2.5	Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings				
2.1 2.2 2.3 2.4 2.5 2.6	Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories				
2.1 2.2 2.3 2.4 2.5 2.6 2.7	Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares				
2.1 2.2 2.3 2.4 2.5 2.6 2.7	Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works				
2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1	Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty				
2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3	Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties				

No	Total- Transmissionlines (In Cr.) Break Down A Transmission Line Preliminary works	148.2 As per original estimates B Construction of 220 KV & 132 KV D/	193.19 Actual capital expenditure(Openi ng) C C Transmission line	(B-C) D	Reasons for Variation E
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 Earth Wire				
2.3	Insulators		<u> </u>		
2.5	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection, Stringing & Civil works				
2	Total Transmission Line Materials				
3 3.1	Taxes and Duties Custom Duty				
3.2	Other Taxes & Duties			1	
	*Pertaining to Transmission				
					Tower Accessori es, Hardware fittings, OPGW Equipmen
	Total- Transmissionlines (In Cr.)	93.88	123.09	29.21	ts etc.
<b></b>					
A	Transmission Line		Construction of		
1 1.1	Preliminary works 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 2.4	Earth Wire Insulators				
2.4	Hardware Fittings				
2.6	Conductor & Earthwire accessories				
2.7	Spares				
2.8	Erection, Stringing & Civil works				
	Total Transmission Line Materials				
3 3.1	Taxes and Duties Custom Duty				
3.1	Other Taxes & Duties				
	*Pertaining to Transmission				
				No Variation till	
	Total- Transmissionlines (In Cr.)	126.24		date	
No	Break Down A	As per original estimates B	Actual capital expenditure(Openi ng) C	Vaiation (B-C) D	Reasons for Variation E
Α	Transmission Line	Construction of 220 KV D/C Sitam	arhi (New)- Raxaul(N	lew) Transmission L	ine with
1	Preliminary works			l	
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			1	
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators			<u>_</u>	
2.5	Hardware Fittings	l		l	
2.6	Conductor & Earthwire accessories				
2.7 2.8	Spares Erection , Stringing & Civil works		L		
2.0	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
1	*Pertaining to Transmission	1			1

	Total Transmissionlines (In Co.)	244.05	Vot to be overside i	Yet to be	Yet to be
	Total- Transmissionlines (In Cr.)		Yet to be awarded		awarded
۱ ۱	Transmission Line	220/132/33 KV	GSS Tajpur (Line Length	-30 KM).	1
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				
2.0	Total Transmission Line Materials				
_					
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
				Yet to be	Yet to be
	Total- Transmissionlines (In Cr.)	103.6	Yet to be awarded	awarded	awarded
-1	Transmission Line	132 KV S/C Purnea – SaharsaLilo a	t Banmankhi against	NIT No. 35/PR/BSP	TCL/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		1	1	
2.1	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				
					Quantiy
					Quantity
	Total- Transmissionlines	2.3(without ET)	5.35 (without ET)	-3.05	
	Total- Transmissionlines	2.3(without ET)	5.35 (without ET)	-3.05	
	Total- Transmissionlines	2.3(without ET)		-3.05	Variatio
	Total- Transmissionlines	2.3(without ET)	Actual capital		Variation Reasons
			Actual capital expenditure(Openi	Vaiation	Variation Reasons for
No	Break Down	As per original estimates (Rs in Crs)	Actual capital expenditure(Openi ng) ( Rs in Crs)	Vaiation (B-C)	Variation Reasons for Variation
	Break Down A	As per original estimates (Rs in Crs) B	Actual capital expenditure(Openi ng) ( Rs in Crs) C	Vaiation (B-C) D	Variation Reasons for Variation E
A-2	Break Down A Transmission Line	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesga	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D	Variation Reasons for Variation E
A-2 1	Break Down A Transmission Line Preliminary works	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D	Variation Reasons for Variation E
A-2 1 1.1	Break Down A Transmission Line Preliminary works Dessign & Engineering	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesga	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D	Variation Reasons for Variation E
A-2 1	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
A-2 1 1.1 1.2	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
A-2 1 1.1 1.2 2	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
A-2 1 1.1 1.2 2 2.1	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation, Right of way, forest clearance ,PTCC, general civil Total Preliminary works Transmission Line material Towers Steel	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
A-2 1 1.1 1.2 2 2.1 2.2	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
A-2 1 1.1 1.2 2 2.1 2.2 2.3	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
A-2 1 1.1 1.2 2 2.1 2.2 2.3 2.4	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
A-2 1 1.1 1.2 2 2.1 2.2 2.3	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
A-2 1 1.1 1.2 2 2.1 2.2 2.3 2.4	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
A-2 1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
A-2 1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5 2.6	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
A-2 1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
A-2 1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
A-2 1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
A-2 1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
A-2 1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
1.1 1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
A-2 1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesga 0 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C 0	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E
A-2 1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesg	Actual capital expenditure(Openi ng) ( Rs in Crs) C anj line at Rajwara(C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variatior E Z/33 KV
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A-2 1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.2 3.2 4 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2	Break Down         A         Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesgi 0 0	Actual capital expenditure(Openi ng) (Rs in Crs) C anj line at Rajwara(C 0 0 15.28 (without ET) 15.28 (without ET) Actual capital expenditure(Openi	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E //33 KV
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A-2 1 1.1 1.2 2 2.1 2.2 2.3 2.4 3 3.1 3.2 3.1 3.2 4 4 4 4 5 2.6 2.7 2.8 3 3.1 3.2 4 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 1.1 1.1 1.2 2.2 2.3 3.2 1 3.2 2.8 3.1 1.1 1.1 1.2 2.2 2.3 3.2 1 1.1 1.2 2.3 2.4 3.2 2.8 3.2 1 1.1 1.2 2.3 2.4 3.2 2.2 3.2 2.2 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.2 3.2 2.2 2.3 2.4 3.2 2.3 2.4	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Transmission Line Preliminary works Dessign & Engineering Preliminary works Dessign & Engineering Preliminary works Transmission Line Preliminary works Dessign & Engineering Preliminary works Transmission Line Preliminary works Custom Duty Custom Custom Custom Custom Duty Custom	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesga 0 0 0 1 14.35 (without ET) As per original estimates B	Actual capital expenditure(Openi ng) (Rs in Crs) C anj line at Rajwara(C 0 0 15.28 (without ET) 15.28 (without ET) Actual capital expenditure(Openi ng) C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variatior E Z/33 KV
A-2 1 1.1 1.2 2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.2 3.1 3.2 4 3 3.1 3.2 4 3 3 1 3.2 4 2.5 2.6 2.7 2.8 3 3 3 1 3.2 4 2.7 2.8 3 3 3 1 3.2 2.4 2.7 2.8 3 3 3 1 3.2 2.4 2.7 2.8 3 3 3 1 3.2 2.4 2.7 2.8 3 3 3 3 1 3.2 2.4 2.7 2.8 3 3 3 1 3.2 2.4 2.5 2.6 2.7 2.8 3 3 3 1 3.2 2.4 2.5 2.6 2.7 2.8 3 3 3 1 3.2 2.4 2.7 2.8 3 3 3 1 3.2 2.4 2.7 2.8 3 3 3 1 3.2 2.4 2.7 2.8 3 3 3 1 3.2 2.4 2.7 2.8 3 3 1 3.2 2.4 2.7 2.8 3 3 1 3.2 2.4 2.7 2.8 3 3 1 3.2 2.4 2.7 2.8 3 3 1 3.2 2.4 2.7 2.8 3 3 1 3.2 2.7 2.8 2.7 2.8 2.8 2.6 2.7 2.8 2.7 2.8 2.8 2.7 2.7 2.8 2.7 2.7 2.8 2.7 2.7 2.8 2.7 2.7 2.2 2.2 2.3 2.3 2.2 2.3 2.2 2.3 2.2 2.3 2.3	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation , Right of way, forest clearance ,PTCC, general civil Total Preliminary works Transmission Line material Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Transmissionlines Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary works Dessign & Engineering Preliminary works Custom Line Transmission Line T	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesga 0 0 0 1 14.35 (without ET) As per original estimates B	Actual capital expenditure(Openi ng) (Rs in Crs) C anj line at Rajwara(C 0 0 15.28 (without ET) 15.28 (without ET) Actual capital expenditure(Openi ng) C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variatior E Z/33 KV
A-2 1 1.1 1.2 2 2.1 2.2 2.3 2.4 3 3.1 3.2 3.1 3.2 4 4 4 4 5 2.6 2.7 2.8 3 3.1 3.2 4 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 3.2 5 2.6 2.7 2.8 3 3.1 1.1 1.1 1.2 2.2 2.3 3.2 1 3.2 2.8 3.1 1.1 1.1 1.2 2.2 2.3 3.2 1 1.1 1.2 2.3 2.4 3.2 2.8 3.2 1 1.1 1.2 2.3 2.4 3.2 2.2 3.2 2.2 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.8 3.2 2.2 3.2 2.2 2.3 2.4 3.2 2.3 2.4	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Transmission Line Preliminary works Dessign & Engineering Preliminary works Dessign & Engineering Preliminary works Transmission Line Preliminary works Dessign & Engineering Preliminary works Transmission Line Preliminary works Custom Duty Custom Custom Custom Custom Duty Custom	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesga 0 0 0 1 14.35 (without ET) As per original estimates B	Actual capital expenditure(Openi ng) (Rs in Crs) C anj line at Rajwara(C 0 0 15.28 (without ET) 15.28 (without ET) Actual capital expenditure(Openi ng) C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variatior E Z/33 KV
A-2 1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 3.1 3.2 4 3.1 3.2 2.4 2.5	Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation , Right of way, forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Transmission Line Preliminary works Dessign & Engineering Preliminary works Dessign & Engineering Preliminary works Total Preliminary works Total Preliminary works Total Transmission Line Preliminary works Dessign & Engineering Preliminary works Transmission Line material Total Transmission Line Hardware Fittings Preliminary works Transmission Line material Total Preliminary works Transmission Line material Total Transmission Line material Hardware Fittings Preliminary investigation, Right of way, forest clearance ,PTCC, general civil Total Transmission Line material Total Transmission Line material Towers Steel Conductor Hardware Fittings	As per original estimates (Rs in Crs) B LILO of 132 KV Purnea - Forbesga 0 0 0 1 14.35 (without ET) As per original estimates B	Actual capital expenditure(Openi ng) (Rs in Crs) C anj line at Rajwara(C 0 0 15.28 (without ET) 15.28 (without ET) Actual capital expenditure(Openi ng) C	Vaiation (B-C) D hahatapur) for 132	Variation Reasons for Variation E //33 KV

2	Total Transmission Line Materials				
3 3.1	Taxes and Duties Custom Duty				
3.2	Other Taxes & Duties				
5.2	*Pertaining to Transmission				
					Quantiy
	Total- Transmissionlines	8.52 (without ET)	8.82 (without ET)	-0.3	Variation
A-4	Transmission Line	132 KV D/C Phulparas – sapoul Lilo	o at Nirmali TL agains	NIT No. 35/PR/BSP	TCL/2015
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
-	Total Preliminary works				
2.1	Transmission Line material Towers Steel				
2.1	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	+			Quantiy
	Total- Transmissionlines	14.31 (without ET)	9.61 (without ET)		Quantity
A-5	Transmission Line	132 KV D/C Begusarai – Bakhar			
A-5 1	Preliminary works				_, _013
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil		1		
	Total Preliminary works				
2	Transmission Line material		<b>_</b>		
2.1	Towers Steel	-			
2.2	Conductor				
2.3	Earth Wire				
2.4 2.5	Insulators Hardware Eittings				
2.5	Hardware Fittings Conductor & Earthwire accessories				
2.0	Spares				
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3					
	Taxes and Duties				
3.1	Taxes and Duties Custom Duty				
3.1	Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission				Quantiy
3.1 3.2	Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Transmissionlines	3.05 (without ET)	5.69 (without ET)		Quantiy Variation
3.1 3.2 A-6	Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Transmissionlines Transmission Line		5.69 (without ET) 29 Januari – BakhariLik		
3.1 3.2	Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Transmissionlines				
3.1 3.2 A-6	Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Transmissionlines Transmission Line Preliminary works				
3.1 3.2 A-6 1 1.1	Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Transmissionlines Transmission Line Preliminary works Dessign & Engineering				
3.1           3.2           A-6           1           1.1           1.2           2	Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material				
3.1           3.2           A-6           1           1.1           1.2           2           2.1	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission lines         Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil         Total Preliminary works         Transmission Line material				
3.1           3.2           A-6           1           1.1           1.2           2           2.1           2.2	Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Transmission Line Transmission Line Preliminary works Dessign & Engineering Preliminary investigation , Right of way, forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor				
3.1           3.2           A-6           1           1.1           1.2           2           2.1           2.2           2.3	Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Transmission Line Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire				
A-6 1 1.1 1.2 2.1 2.2 2.3 2.4	Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Transmission Line Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators				
A-6 1 1.1 1.2 2.1 2.2 2.3 2.4 2.5	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Transmission Line         Preliminary works         Dessign & Engineering         Preliminary works         Total Preliminary works         Tansmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings				
A-6 1 1.1 1.2 2.1 2.2 2.3 2.4	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Transmission Line         Preliminary works         Dessign & Engineering         Preliminary works         Total Preliminary works         Total Preliminary works         Total Preliminary works         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories				
3.1 3.2 4-6 1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5 2.6	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Transmission Line         Preliminary works         Dessign & Engineering         Preliminary works         Total Preliminary works         Tansmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings				
3.1 3.2 1 1.1 1.2 2.1 2.2 2.3 2.4 2.5 2.6 2.7	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares				
3.1 3.2 1 1.1 1.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Transmission Line         Preliminary works         Dessign & Engineering         Preliminary works         Total Preliminary works         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties				
3.1 3.2 1 1.1 1.2 2.1 2.3 2.4 2.5 2.6 2.7 2.6 2.7 2.8 3 3.1	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil         Total Transmission Line         Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty				
3.1 3.2 1 1.1 1.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary works         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties				
3.1 3.2 1 1.1 1.2 2.1 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil         Total Transmission Line         Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty				Variation
3.1 3.2 1 1.1 1.2 2.1 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation, Right of way,forest clearance ,PTCC,general civil         Total Preliminary works         Tarasmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earth Wire         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission		gusarai — BakhariLik	> at Ballia	Quantiy
3.1 3.2 1 1.1 1.1 2.2 2.1 2.2 2.3 2.4 2.5 2.6 2.6 2.6 2.6 3 3.1 3.1 3.2	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary works         Total Preliminary works         Total Preliminary works         Total Preliminary works         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Variation
3.1 3.2 1 1.1 1.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.2 3.1 3.2	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary works         Total Preliminary works         Total Preliminary works         Transmission Line material         Total Preliminary works         Transmission Line material         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Stores & Total-Transmission	132 KV D/C B	gusarai — BakhariLik	o at Ballia	Quantiy
3.1 3.2 1 1.1 1.2 2.1 2.3 2.4 2.5 2.6 2.7 2.6 2.7 2.8 3 3.1	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Pertaining to Transmission         Preliminary to Preliminary works	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Quantiy
3.1 3.2 1 1.1 1.1 2.2 2.3 2.4 2.5 2.6 2.7 2.6 2.7 2.8 3 3.1 3.1 3.2 4 -7 1	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary works         Total Preliminary works         Total Preliminary works         Transmission Line material         Total Preliminary works         Transmission Line material         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Stores & Total-Transmission	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Quantiy
3.1 3.2 1 1.1 1.2 2.1 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 4 	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Pretarining to Transmission         Preliminary works	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Quantiy
3.1 3.2 1 1.1 1.2 2.1 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 4 	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary works         Total Preliminary works         Total Preliminary works         Total Preliminary works         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Taxes and Duties         Custom Duty         Other Taxes & Duties         Taxes and Duties         Total- Transmission Line         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Quantiy
3.1           3.2           1           1.1           1.2           2.1           2.2           2.3           2.4           2.5           2.6           2.7           2.8           3.1           3.2           3.1           3.2           1.1           1.2           2.3           2.4           2.5           2.6           2.7           3.3           3.1           3.2           3.1           3.2           2           2.1	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Pretaining to Transmission         Pretraining to Transmission         Other Taxes & Duties         *Pertaining to Transmission         Preliminary works         Dessign & Engineering         Preliminary works         Dessign & Engineering         Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil </td <td>132 KV D/C B</td> <td>gusarai – BakhariLik</td> <td>o at Ballia</td> <td>Quantiy</td>	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Quantiy
3.1           3.2           1           1.1           1.2           2           2.1           2.3           2.4           2.5           2.6           2.7           3.3           3.1           3.2           4           2.5           2.6           2.7           2.8           3.1           3.2           4           1.1           1.2           2           2.1           2.2	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Pretraining to Transmission         Pretraining to Transmission         Pretraining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary works         Dessign & Engineering         Preliminary investigation , Right of way, forest clearance ,PTCC,general civil	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Quantiy
3.1         3.2         1         1.1         1.2         2         2.1         2.2         2.3         2.4         2.5         2.6         2.7         2.8         3.1         3.2         4         2.5         2.6         2.7         2.8         3.1         3.2         4         1.1         1.2         2         2.1         2.2         2.3	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation , Right of way, forest clearance ,PTCC,general civil         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Spares         Conductor & Earthwire accessories         Spares         Conductor & Earthwire accessories         Spares         Conductor & Earthwire accessories         Spares         Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary works         Dessign & Engineering         Preliminary works         Dessign & Engineering <td>132 KV D/C B</td> <td>gusarai – BakhariLik</td> <td>o at Ballia</td> <td>Quantiy</td>	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Quantiy
3.1 3.2 3.2 1 1.1 1.2 2 2.1 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 3.1 3.2 4 7 2.5 2.6 2.7 2.8 3 3.1 1 3.2 2.4 2.5 2.6 2.7 2.8 3 3.1 1 3.2 2.1 2.3 2.4 2.1 2.2 3 3.2 2.4 2.5 2.6 2.7 2.8 2.6 2.7 2.8 2.6 2.7 2.8 2.6 2.7 2.8 2.6 2.7 2.8 3 3.1 1 3.2 2.4 2.5 2.6 2.7 2.8 2.8 2.4 2.5 2.6 2.7 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation , Right of way, forest clearance ,PTCC,general civil         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary works         Dessign & Engineering	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Quantiy
3.1         3.2         1         1.1         1.2         2.1         2.2         2.3         2.4         2.5         2.6         2.7         2.8         3.1         3.2         3.1         3.2         4         2.5         2.6         2.7         2.8         3.1         3.2         2         1.1         1.2         2.1         2.3         2.4         2.5	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation, Right of way,forest clearance ,PTCC,general civil         Total Preliminary works         Dessign & Engineering         Preliminary investigation, Right of way,forest clearance ,PTCC,general civil         Total Preliminary works         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earth Wire         Insulators         Hardware Steel         Conductor & Earth Wire         Insulators         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission Line         Preliminary works         Dessign & Engineering         Preliminary works         Dessign & Engineering         Preliminary works         Dessign & Engineering         Preliminary works<	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Quantiy
3.1 3.2 3.2 1 1.1 1.1 2.2 2.3 2.4 2.5 2.6 3 3 3.1 3.2 3.1 3.2 2.8 3 3.1 1.1 1.1 2.2 2.8 3 3.1 1.1 2.2 2.8 2.6 2.6 2.6 2.6	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation, Right of way,forest clearance ,PTCC,general civil         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earth Wire         Insulators         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Intelliminary works         Dessign & Engineering         Preliminary works         Dessign & Engineering         Preliminary works         Cotal - Transmission Line         Preliminary works         Dessign & Engineering         Preliminary works         Transmission Line         Preliminary works         Transmission Line mat	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Quantiy
3.1 3.2 3.2 1 1.1 1.1 2.2 2.3 2.4 2.5 2.6 2.7 2.7 3.3 3.1 3.2 3.1 3.2 2.4 2.4 2.5 2.6 2.7 1 1.1 1.1 1.1 2.2 2.3 2.4 2.4 2.5 2.6 2.7 2.1 2.2 2.3 3.1 3.2 2.1 2.2 2.3 3.1 3.2 2.5 2.6 2.7 2.1 2.1 2.2 2.3 3.1 3.2 2.5 2.6 2.7 2.1 2.1 2.2 2.3 3.2 3.1 3.1 2.2 2.3 3.1 3.2 2.5 2.6 2.7 2.7 3.2 3.2 3.1 3.2 3.1 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation, Right of way, forest clearance ,PTCC, general civil         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         Spares         Erection , Stringing & Civil works         Total Transmission Line         *Pertaining to Transmission         Yentaining to Transmission         Preliminary works         Dessign & Engineering         Preliminary works         Dessign & Engineering         Preliminary works         Dessign & Engineering         Preliminary works         Dessign & Engineering      <	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Quantiy
3.1 3.2 3.2 1 1.1 1.1 2.2 2.3 2.4 2.5 2.6 3 3 3.1 3.2 3.1 3.2 2.8 3 3.1 1.1 1.1 2.2 2.8 3 3.1 1.1 2.2 2.8 2.6 2.6 2.6 2.6	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         *Pertaining to Transmission         Total- Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         Custom Duty         Other Taxes & Duties         Preliminary works         Dessign & Engineering         Preliminary works         Dessign & Engineer	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Quantiy
3.1 3.2 3.2 1 1.1 1.1 1.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 3.1 3.2 2.4 2.5 2.6 2.7 2.8 3 3.1 1.1 1.1 2.2 2.3 2.4 2.2 1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.2 3.1 3.2 3.1 3.2 3.1 3.2 3.1 3.2 3.1 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2	Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Transmission Line Preliminary works Dessign & Engineering Preliminary investigation, Right of way, forest clearance, PTCC, general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection, Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Transmission Line Preliminary works Dessign & Engineering Preliminary works Transmission Line Total-Transmission Line Preliminary works Dessign & Engineering Preliminary works Transmission Line Argense Engineering Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor Earth Wire Insulators Hardware Fittings Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection, Stringing & Civil works Total Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection, Stringing & Civil works Total Transmission Line Materials	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Quantiy
3.1 3.2 3.2 1 1.1 1.1 2.2 2.3 2.4 2.5 2.6 2.7 2.7 3 3.1 3.2 3 3.1 3.2 2.4 2.4 2.5 2.6 2.7 1 1.1 1.1 1.2 2 2.3 2.4 2.4 2.5 2.6 2.7 2.1 2.2 2.3 3 3.1 3.2 2.4 2.5 2.6 2.7 2.1 2.2 2.3 3.2 2.4 2.5 2.6 2.7 2.1 2.2 2.3 3.3 3.1 3.2 2.5 2.6 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total-Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation, Right of way, forest clearance, PTCC, general civil         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection, Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Spares         Erection, Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Preliminary works         Dessign & Engineering         Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wi	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Quantiy
3.1 3.2 3.2 1 1.1 1.1 1.2 2.1 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 3.1 3.2 2.4 2.5 2.6 2.7 2.8 3 3.1 1.1 1.1 2.2 2.3 3 3.1 1 3.2 2.4 2.5 2.6 2.7 2.8 3 3.1 1 2.2 2.3 3 3.1 1 2.2 2.3 3 3.1 3.2 3 3.2 3 3.1 3.2 3 3.2 3 3.1 3.2 3 3.1 3.2 3 3.2 3 3.1 3.2 3 3.2 3 3.1 3.2 3 3.2 3 3.1 3.2 3 3.2 3 3.2 3 3.2 3 3.2 3 3.2 3 3.2 3 3.2 3 3.1 3.2 3 3.2 3 3.2 3 3.2 3 3.2 3 3.2 3 3.2 3 3.2 3 3.2 3 3.2 3 3.2 3 3.2 3 3.2 3 3.2 3 3.2 3 3 3.2 3 3 3.2 3 3 3 3	Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Transmission Line Preliminary works Dessign & Engineering Preliminary investigation, Right of way, forest clearance, PTCC, general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection, Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Transmission Line Preliminary works Dessign & Engineering Preliminary works Transmission Line Total-Transmission Line Preliminary works Dessign & Engineering Preliminary works Transmission Line Argense Engineering Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor Earth Wire Insulators Hardware Fittings Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection, Stringing & Civil works Total Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection, Stringing & Civil works Total Transmission Line Materials	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Quantiy
3.1         3.2         1         1.1         1.2         2         2.1         2.2         2.3         2.4         2.5         2.6         2.7         2.8         3.1         3.2         3.1         3.2         2.4         2.5         2.6         2.7         2.8         3.1         3.2         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.5         2.6         2.7         2.8         3.1	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total-Transmission Line         Preliminary works         Dessign & Engineering         Preliminary works         Total Preliminary works         Transmission Line material         Total Preliminary works         Transmission Line material         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         *Pertaining to Transmission         Preliminary works         Dessign & Engineering	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Quantiy
3.1         3.2         1         1.1         1.2         2         2.1         2.2         2.3         2.4         2.5         2.6         2.7         2.8         3.1         3.2         3.1         3.2         2.4         2.5         2.6         2.7         2.8         3.1         3.2         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.1         2.5         2.6         2.7         2.8         3.1	Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Total-Transmission Line         Preliminary works         Dessign & Engineering         Preliminary works         Transmission Line material         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earthwire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         *Pertaining to Transmission         *Pertaining to Grannee, PTCC, general civil         Total Transmission Line         Preliminary works         Dessign & Engineering         Preliminary works         Dessign & Engineering         Preliminary works         Transmission Line material         Towers Steel         Conductor	132 KV D/C B	gusarai – BakhariLik	o at Ballia	Quantiy

				/ / /-	
A-8	Transmission Line	132KV D/C Begusarai -Bakha	ri Line against NIT N	o. 35/PR/BSPTCL/20	)15
1 1.1	Preliminary works Dessign & Engineering				
1.1	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 2.7	Conductor & Earthwire accessories				
2.7	Spares Erection , Stringing & Civil works				
2.0	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
					Quantiy
	Total- Transmissionlines	26.07 (without ET)	18.66 (without ET)		Variation
A-9	Transmission Line	Second circuit stringing of 132 KV	DCSS Saharsa-Udak	ishanganj(50.5 CKIV	) against
1.1	Preliminary works Dessign & Engineering				
1.1	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
1.2	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		l	ļ	
2.6	Conductor & Earthwire accessories				
2.7	Spares Eraction Stringing & Civil works				
2.8	Erection , Stringing & Civil works Total Transmission Line Materials		<u> </u>		
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	2 KV Begusarai-Kuses	hwarsthan (67.27 C	KM)
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
2	Total Preliminary works				
2	Transmission Line material Towers Steel				
2.1	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		<u> </u>		
	Total- Transmission	6.21 (without ET)	6.21 (without ET)	0	
A-11	Transmission Line	Second circuit stringing of 132 KV		-	Л) against
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
μĮ	Total Preliminary works		ļ	ļ]	
2	Transmission Line material		l	ļ	
2.1	Towers Steel		<u> </u>		
2.2	Conductor Earth Wire		<u> </u>	├	
2.3 2.4	Earth Wire Insulators	+	<u> </u>	├	
2.4	Hardware Fittings				
2.5	Conductor & Earthwire accessories	<u> </u>	t		
2.7	Spares	İ.	1		
2.8	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties	+	ļ	ļ	
┝──┤	*Pertaining to Transmission		A CC (		
A 13	Total- Transmissionlines	4.66(without ET)	4.66 (without ET)	0 ant of both sizewite	of 220 10 1
A-12 1	Transmission Line Preliminary works	Construction 220 KV D/C Line by m	aking LILO arrangeme	ent or both circuits	01 220 KV
1.1	Dessign & Engineering	1	1		
1.1	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil	1	1		
1.2	Total Preliminary works	<u> </u>	t		
		İ	1		
2	Transmission Line material		t	1	
2 2.1	Towers Steel			I	
2.1	Towers Steel				

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	•				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
			NA		
			Tender under	NA Tender under	
	Total- Transmissionlines	14.14 including GST	progress	progress	
A-13	Transmission Line	132 KV D/C Thakurganj- Araria Trar	smission Line with A	CSR Panther Condu	ctor (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	1			
3.2					
	*Pertaining to Transmission	1	NA		
			NA Tandau undau	NA Touris	
	<u> </u>		Tender under	NA Tender under	
	Total- Transmissionlines	93.16 including GST	progress	progress	
A-14	Transmission Line	220 KV D/C Kishanganj (New)-	Thakurganj Transmis	sion 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				
2.5	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				
			NA		
			Tender under	NA Tender under	
	Total- Transmissionlines	74.29 including GST	progress	progress	
A	Transmission Line	132KV D/C Kusheshwarsthan- S			/2014
1	Preliminary works				,
1.1	Dessign & Engineering				
1.2					
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works				
_	•	1			
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor				
2.3	Earth Wire				
2.4	Insulators	1	1		
2.5	Hardware Fittings				
2.6	Hardware Fittings Conductor & Earthwire accessories				
2.6 2.7	Hardware Fittings Conductor & Earthwire accessories Spares				
2.6	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works				
2.6 2.7	Hardware Fittings Conductor & Earthwire accessories Spares				
2.6 2.7	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works				
2.6 2.7 2.8	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials				
2.6 2.7 2.8 3	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties				
2.6 2.7 2.8 3 3.1	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty				
2.6 2.7 2.8 3 3.1	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties				Due to
2.6 2.7 2.8 3 3.1	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties				
2.6 2.7 2.8 3 3.1	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission	80.64	110.8		quantity
2.6 2.7 2.8 3 3.1	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties	80.64	110.8		quantity
2.6 2.7 2.8 3 3.1	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount			-30.16	quantity variatior
2.6 2.7 2.8 3 3.1 3.2 A	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line	80.64 220 KV Kishanganj New- Madhep		-30.16	quantity variatior
2.6 2.7 2.8 3 3.1 3.2 A A	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works			-30.16	quantity variatior
2.6 2.7 2.8 3 3.1 3.2 A 1 1.1	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering			-30.16	quantity variatior
2.6 2.7 2.8 3 3.1 3.2 A A	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil			-30.16	quantity variatior
2.6 2.7 2.8 3 3.1 3.2 A 1 1.1	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering			-30.16	quantity variatior
2.6 2.7 2.8 3 3.1 3.2 A A 1 1.1	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil			-30.16	quantity variatior
2.6 2.7 2.8 3 3.1 3.2 A 1 1.1 1.2	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works			-30.16	quantity variation
2.6 2.7 2.8 3 3.1 3.1 3.2 A 1 1.1 1.2 2	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material			-30.16	quantity variation
2.6 2.7 2.8 3 3.1 3.2 A A 1 1.1 1.2 2 2.1 2.2	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor			-30.16	quantity variation
2.6 2.7 2.8 3 3.1 3.2 A 1 1.1 1.2 2 2.1 2.2 2.3	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire			-30.16	quantity variation
2.6 2.7 2.8 3 3.1 3.2 A A 1.1 1.1 1.2 2 2.1 2.2	Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation , Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor			-30.16	quantity variation

2.7 2.8					
2.8	Spares				
	Erection , Stringing & Civil works				
	Total Transmission Line Materials				
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				D
					Due to
	Total Amount	117.5	129.78		quantity variation
		117.3	125.78	-12.20	Variation
А	Transmission Line	220 KV (D/C) Line between Madhe	pura to Laukhi with	AL EQ Conductor as	nainet NIT
A 1	Preliminary works	220 KV (D/C) Life between Wadne	pura to Laukin with	AL-59 Conductor ag	dinst NIT
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	ļ			
3.2	Other Taxes & Duties	ļ			
	*Pertaining to Transmission	l			
					Due to
			_		quantity
	Total- Amount	98.69	107.5		variation
A 1	Transmission Line	220 KV Purnea (PG) – Begus	arai D/C Tx. Line ag	ainst NII no.27/201	5
1 1.1	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				
2.2	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 3.1	Taxes and Duties Custom Duty				
3.1	Custom Duty				
3.1	Custom Duty Other Taxes & Duties				Due to
3.1	Custom Duty Other Taxes & Duties				Due to quantity
3.1	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount	97.2	114.91	-17.71	quantity variation
3.1 3.2 A	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line	97.2 132 KV LILO T/I on one of the CKT o		-17.71	quantity variation
3.1 3.2 A A	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works			-17.71	quantity variation
3.1 3.2 A 1 1.1	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering			-17.71	quantity variation
3.1 3.2 A A	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil			-17.71	quantity variation
A 1 1.1 1.2	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works			-17.71	quantity variation
A 1 1.1 1.2 2	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material			-17.71	quantity variation
3.1 3.2 A 1 1.1 1.2 2 2.1	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel			-17.71	quantity variation
3.1 3.2 A 1 1.1 1.2 2 2.1 2.1 2.2	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor			-17.71	quantity variation
3.1 3.2 A 1 1.1 1.2 2 2.1 2.2 2.3	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire			-17.71	quantity variation
3.1 3.2 A 1 1.1 1.2 2 2.1 2.2 2.3 2.4	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators			-17.71	quantity variation
3.1 3.2 A 1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings			-17.71	quantity variation
3.1 3.2 A 1 1.1 1.2 2 2.1 2.2 2.3 2.4	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories			-17.71	quantity variation
3.1 3.2 4 1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5 2.6	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares			-17.71	quantity variation
3.1 3.2 1 1.1 1.2 2.1 2.2 2.3 2.3 2.4 2.5 2.6 2.7	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories			-17.71	quantity variation
3.1 3.2 1 1.1 1.2 2.1 2.2 2.3 2.3 2.4 2.5 2.6 2.7	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works			-17.71	quantity variation
3.1 3.2 4 1 1.1 1.2 2 2.1 2.3 2.4 2.5 2.6 2.7 2.8	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials			-17.71	quantity variation
3.1 3.2 7 1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.6 2.7 2.8 3 3	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties			-17.71	quantity variation
3.1 3.2 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Total Preliminary works Transmission Line material Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty			-17.71	quantity variation
3.1 3.2 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission			-17.71 ha to Ramanagar G	quantity variation
3.1 3.2 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Total Preliminary works Transmission Line material Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties			-17.71 ha to Ramanagar G	quantity variation SS against
3.1           3.2           1           1.1           1.2           2.1           2.2           2.3           2.4           2.5           2.6           2.7           3.3           3.1           3.2	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission	132 KV LILO T/l on one of the CKT o	f 132 KV BetiaDhar	-17.71 ha to Ramanagar G	quantity variation SS against 
3.1 3.2 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Total Preliminary works Transmission Line material Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line	132 KV LILO T/l on one of the CKT o	f 132 KV BetiaDhar	-17.71 ha to Ramanagar G	quantity variation SS against 
3.1 3.2 7 1 1.1 1.2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 7 4 2.5 2.6 2.7 2.8 7 3 3.1 3.1 3.2 7 4 2.5 2.6 2.7 2.8 7 3 3 1 1 3.1 2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.7 2.5 2.6 2.7 2.7 2.7 2.5 2.6 2.7 2.7 2.7 2.5 2.6 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Total Preliminary works Transmission Line material Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works	132 KV LILO T/l on one of the CKT o	f 132 KV BetiaDhar	-17.71 ha to Ramanagar G	quantity variation SS against 
3.1 3.2 3.2 1 1.1 1.2 2.1 2.1 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 3.1 3.2 4 2.5 2.6 2.7 2.8 3 3.1 3.1 1.3.2 2 4 2.5 2.6 2.7 2.8 3 3.1 1.1 1.1 1.1 1.2 2 2.1 2.1 2.1 2.1 2.1	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Total Preliminary works Transmission Line material Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering	132 KV LILO T/l on one of the CKT o	f 132 KV BetiaDhar	-17.71 ha to Ramanagar G	quantity variation SS against 
3.1 3.2 7 1 1.1 1.2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 7 4 2.5 2.6 2.7 2.8 7 3 3.1 3.1 3.2 7 4 2.5 2.6 2.7 2.8 7 3 3 1 1 3.1 2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.7 2.5 2.6 2.7 2.7 2.7 2.5 2.6 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil	132 KV LILO T/l on one of the CKT o	f 132 KV BetiaDhar	-17.71 ha to Ramanagar G	quantity variation SS against 
3.1           3.2           1           1.1           1.2           2           2.1           2.2           2.1           2.2           2.3           2.4           2.5           2.6           2.7           2.8           3           3.1           3.2           4           1           1.1           1.2	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary works	132 KV LILO T/l on one of the CKT o	f 132 KV BetiaDhar	-17.71 ha to Ramanagar G	quantity variation SS against 
3.1           3.2           1           1.1           1.2           2.3           2.4           2.5           2.6           2.7           2.8           3.1           3.2           3.1           3.2           3.1           3.2           2.3           2.4           2.5           2.6           3.1           3.2           3           3.1           3.2           3           3.1           3.2           3.1           3.2           3.3           3.1           3.2           3.3           3.1           3.2           3.3           3.1           3.2           3.3           3.1           3.2           3.3           3.1           3.2           3.3           3.1           3.2           3.3           3.4	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works	132 KV LILO T/l on one of the CKT o	f 132 KV BetiaDhar	-17.71 ha to Ramanagar G	quantity variation SS against 
3.1           3.2           1           1.1           1.2           2           2.1           2.2           2.3           2.4           2.5           2.6           2.7           2.8           3           3.1           3.2           A           1.1           1.2           2           2.3           2.4           2.5           2.6           3.3           3.1           3.2           3           3.1           3.2           2           2.1	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Amount Transmission Line Preliminary works Dessign & Engineering Preliminary works Transmission Line Preliminary works Transmission Line material	132 KV LILO T/l on one of the CKT o	f 132 KV BetiaDhar	-17.71 ha to Ramanagar G	quantity variation SS against 
3.1 3.2 3.2 4 1 1.1 1.2 2.1 2.3 2.4 2.5 2.6 2.7 2.3 2.4 2.5 2.6 2.7 3 3.1 3.1 3.2 3 3.1 3.2 4 2.5 2.6 2.7 2.7 2.8 4 2.5 2.6 2.7 2.7 2.8 3 3 3.1 1.1 2.2 2 2.1 1.2 2.2 2.1 2.2 2.1 2.2	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary works Transmission Line Transmission Line Transmission Line Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works	132 KV LILO T/l on one of the CKT o	f 132 KV BetiaDhar	-17.71 ha to Ramanagar G	quantity variation SS against 
3.1 3.2 3.2 1 1.1 1.1 1.2 2.1 2.3 2.4 2.5 2.6 2.7 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 3.1 3.2 4 2.5 2.6 2.7 2.8 3 3.1 1 3.2 2.2 2.3 2.4 2.4 2.5 2.6 2.7 2.7 2.8 3 3.1 1 1.2 2.2 2.3 2.4 2.4 2.5 2.6 2.7 2.7 2.8 3 3.1 1 2.2 2.3 2.4 2.4 2.5 2.6 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total- Amount Transmission Line Preliminary works Dessign & Engineering Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Transmission Line	132 KV LILO T/l on one of the CKT o	f 132 KV BetiaDhar	-17.71 ha to Ramanagar G	quantity variation SS against 
3.1           3.2           3.2           1           1.1           1.2           2.1           2.2           2.3           2.4           2.5           2.6           2.7           2.8           3.1           3.1           3.1           3.1           3.1           3.1           3.1           3.1           3.1           3.1           3.1           3.1           3.1           3.1           3.1           3.1           3.1           3.1           3.2           3.1           3.2           3.1           3.2           3.2           2.2           2.3           2.4	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation , Right of way, forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Amount Transmission Line Preliminary works Dessign & Engineering Preliminary works Total Transmission Line Transmission Line Preliminary works Dessign & Engineering Preliminary works Total Preliminary works Total Preliminary works Total Transmission Line material Towers Steel Conductor Earth Wire Insulators	132 KV LILO T/l on one of the CKT o	f 132 KV BetiaDhar	-17.71 ha to Ramanagar G	quantity variation SS against 
3.1           3.2           1           1.1           1.2           2           2.1           2.2           2.3           2.4           2.5           2.6           3.3           3.1           3.2           3           3.1           3.2           2           2.3           2.4           2.5           2.6           2.7           2.8           3.1           3.2           3.3           3.1           3.2           2.8           3.1           3.2           2.8           2.1           2.2           2.1           2.2           2.3           2.4           2.5	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Total Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Total Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings	132 KV LILO T/l on one of the CKT o	f 132 KV BetiaDhar	-17.71 ha to Ramanagar G	quantity variation SS against 
3.1           3.2           1           1.1           1.2           2.3           2.4           2.5           2.6           3.1           3.2           3.3           3.1           3.2           2.3           2.4           2.5           2.6           2.1           3.2           3.3           3.1           3.2           2.8           2.8           3.1           3.2           2.8           2.8           3.3.1           3.2           2.8           2.1           2.2           2.3           2.4           2.5           2.6	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation, Right of way, forest clearance, PTCC, general civil Total Preliminary works Transmission Line material Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Total Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Amount Transmission Line Preliminary works Dessign & Engineering Preliminary works Transmission Line Arransmission Line Preliminary works Transmission Line Preliminary works Transmission Line Preliminary works Transmission Line Arransmission Line Preliminary works Transmission Line Arransmission Line Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories	132 KV LILO T/l on one of the CKT o	f 132 KV BetiaDhar	-17.71 ha to Ramanagar G	quantity variation SS against 
3.1           3.2           1           1.1           1.2           2           2.1           2.2           2.3           2.4           2.5           2.6           3.3           3.1           3.2           3           3.1           3.2           2           2.3           2.4           2.5           2.6           2.7           2.8           3.1           3.2           3.3           3.1           3.2           2.8           3.1           3.2           2.8           2.1           2.2           2.1           2.2           2.3           2.4           2.5	Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Total-Amount Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Total Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Total Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings	132 KV LILO T/l on one of the CKT o	f 132 KV BetiaDhar	-17.71 ha to Ramanagar G	quantity variation SS against 

3				1	
3	Total Transmission Line Materials				
2.4	Taxes and Duties				
3.1 3.2	Custom Duty Other Taxes & Duties				
5.2	*Pertaining to Transmission				
					Due to
					quantity
	Total- Amount	14.95	15.28	-0.33	variation
Α	Transmission Line	Construction of (i)LILO arrangen	nent of 132 KV DCSS	Saharsa(OLD)-Bann	nankhi
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 2.5	Insulators Hardware Fittings				
2.5	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
	Total- Amount	49.57			awarded
			Actual capital		Reasons
			expenditure(Openi		for
No	Break Down	As per original estimates (Rs in Crs)		(B-C)	Variation
A 1	A	B	C (400 K)() to Matihari	D	E
A-1 1	Transmission Line Preliminary works	132 KV D/C T/L from Motihari	(400 KV) to Motihari	(BSPICL) against N	
1.1					
1.1	Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
1.2	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				
3.1 3.2	Other Taxes & Duties				
					Duoto
	Other Taxes & Duties				Due to
	Other Taxes & Duties	742	8.54		quantity
	Other Taxes & Duties	7.42	8.54 Actual canital		quantity variation
	Other Taxes & Duties	7.42	Actual capital	-1.12	quantity variation Reasons
3.2	Other Taxes & Duties *Pertaining to Transmission		Actual capital expenditure(Openi	-1.12 Vaiation	quantity variation Reasons for
	Other Taxes & Duties	7.42 As per original estimates (Rs in Crs) B	Actual capital expenditure(Openi	-1.12	quantity variation Reasons
3.2	Other Taxes & Duties *Pertaining to Transmission Break Down	As per original estimates (Rs in Crs)	Actual capital expenditure(Openi ng) ( Rs in Crs) C	-1.12 Vaiation (B-C) D	quantity variation Reasons for Variation E
3.2 No A-2 1	Other Taxes & Duties *Pertaining to Transmission Break Down A	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C	-1.12 Vaiation (B-C) D	quantity variation Reasons for Variation E
3.2 No A-2 1 1.1	Other Taxes & Duties *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mol	Actual capital expenditure(Openi ng) ( Rs in Crs) C	-1.12 Vaiation (B-C) D	quantity variation Reasons for Variation E
3.2 No A-2 1	Other Taxes & Duties *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E
3.2 No A-2 1 1.1 1.2	Other Taxes & Duties *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way, forest clearance ,PTCC,general civil Total Preliminary works	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E
3.2 No A-2 1 1.1 1.2 2	Other Taxes & Duties *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation "Right of way, forest clearance ,PTCC, general civil Total Preliminary works Transmission Line material	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E
3.2 No A-2 1 1.1 1.2 2 2.1	Other Taxes & Duties *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E
3.2 No A-2 1 1.1 1.2 2 2.1 2.2	Other Taxes & Duties *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E
3.2 No A-2 1 1.1 1.2 2 2.1 2.2 2.3	Other Taxes & Duties *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E
3.2 No A-2 1 1.1 1.2 2 2.1 2.2 2.3 2.4	Other Taxes & Duties *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E
3.2 No A-2 1 1.1 1.2 2 2.1 2.2 2.3 3 2.4 2.5	Other Taxes & Duties *Pertaining to Transmission  *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E
3.2 No A-2 2 2.1 2.2 2.3 2.3 2.4 2.5 2.6	Other Taxes & Duties *Pertaining to Transmission  *Pertaining to Transmission  Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way, forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E
3.2 No A-2 1 1.1 1.2 2 2.1 2.2 2.3 3 2.4 2.5	Other Taxes & Duties *Pertaining to Transmission  *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E
3.2 No A-2 1 1.1 2.2 2.1 2.2 2.3 2.4 2.5 2.6 2.7	Other Taxes & Duties *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & EarthWire accessories Spares	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E
3.2 No A-2 1 1.1 2.2 2.1 2.2 2.3 2.4 2.5 2.6 2.7	Other Taxes & Duties *Pertaining to Transmission  Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E
3.2 No A-2 1 1.1 1.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1	Other Taxes & Duties *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E
3.2 No A-2 1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.7 2.8 3 3	Other Taxes & Duties *Pertaining to Transmission *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E
3.2 No A-2 1 1.1 1.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1	Other Taxes & Duties  *Pertaining to Transmission  *Pertaining to Transmission  Break Down  A  Transmission Line Preliminary works Dessign & Engineering  Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E 
3.2 No A-2 1 1.1 1.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1	Other Taxes & Duties *Pertaining to Transmission *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E 
3.2 No A-2 1 1.1 1.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1	Other Taxes & Duties *Pertaining to Transmission *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet 0	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E 
3.2 No A-2 1 1.1 1.2 2.3 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1	Other Taxes & Duties *Pertaining to Transmission *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet 0 0	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E 
3.2 No A-2 1 1.1 1.2 2.3 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1	Other Taxes & Duties *Pertaining to Transmission *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E 
3.2 No A-2 1 1.1 1.2 2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 3.1 3.2	Other Taxes & Duties  *Pertaining to Transmission  Break Down  A  Transmission Line Preliminary works Dessign & Engineering  Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-1.12 Vaiation (B-C) D tiah against NIT No	quantity variation Reasons for Variation E 
3.2 No A-2 1 1.1 1.2 2 2.3 3 2.4 2.5 2.6 2.7 2.8 2.6 2.7 2.8 3 3.1	Other Taxes & Duties *Pertaining to Transmission *Pertaining to Transmission Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way, forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Break Down	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-1.12 Vaiation (B-C) D tiah against NIT No 	quantity variation Reasons for Variation E 
3.2 No A-2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 3.2 3.2 No	Other Taxes & Duties *Pertaining to Transmission *Pertaining to Transmission  Break Down A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation Right of way, forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials Taxes and Duties Custom Duty Other Taxes & Duties *Pertaining to Transmission Break Down A	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-1.12 Vaiation (B-C) D tiah against NIT No 	quantity variation Reasons for Variation E 
3.2 No A-2 1 1.1 2.2 2.1 2.2 2.3 2.4 2.4 2.5 2.6 2.7 2.8 3 3.1 3.1 3.2 3.1 3.2 3.2 0 4.3	Other Taxes & Duties         *Pertaining to Transmission         *Pertaining to Transmission         A         Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation, Right of way, forest clearance ,PTCC,general civil         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earth Wire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Break Down         A         Transmission Line	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-1.12 Vaiation (B-C) D tiah against NIT No 	quantity variation Reasons for Variation E 
3.2 No A-2 1 1.1 1.2 2 2.3 2.4 2.5 2.6 2.7 2.8 3 3.1 3.2 3 3.1 3.2 0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Other Taxes & Duties         *Pertaining to Transmission         *Pertaining to Transmission         A         Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earth Wire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Break Down         A         Transmission Line         Preliminary works	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-1.12 Vaiation (B-C) D tiah against NIT No 	quantity variation Reasons for Variation E 
3.2 No A-2 1 1.1 2.2 2.1 2.2 2.3 2.4 2.4 2.5 2.6 2.7 2.8 3 3.1 3.2 3.1 3.2 3.2 No No	Other Taxes & Duties         *Pertaining to Transmission         *Pertaining to Transmission         A         Transmission Line         Preliminary works         Dessign & Engineering         Preliminary investigation, Right of way, forest clearance ,PTCC,general civil         Total Preliminary works         Transmission Line material         Towers Steel         Conductor         Earth Wire         Insulators         Hardware Fittings         Conductor & Earth Wire accessories         Spares         Erection , Stringing & Civil works         Total Transmission Line Materials         Taxes and Duties         Custom Duty         Other Taxes & Duties         *Pertaining to Transmission         Break Down         A         Transmission Line	As per original estimates (Rs in Crs) B 132 KV D/C T/L from Mot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Actual capital expenditure(Openi ng) ( Rs in Crs) C ihari (400 KV) to Bet 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-1.12 Vaiation (B-C) D tiah against NIT No 	quantity variation Reasons for Variation E 

		1			
2	Transmission Line material				
2.1	Towers Steel				
2.2	Conductor Earth Wire				
2.3	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				Duete
					Due to quantity
		19.48	27.42	-7 94	variation
		15.40	Actual capital	7.54	Reasons
			expenditure(Openi	Vaiation	for
	Break Down	As per original estimates (Rs in Crs)	ng) ( Rs in Crs)	(B-C)	Variation
	Α	В	с	D	E
A-4	Transmission Line	132 KV S/C transmission lines on D	/C Tower from 132/3	3 KV Dhaka GSS to	upcoming
1	Preliminary works				
1.1	Dessign & Engineering				
1.2	Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil				
2	Total Preliminary works Transmission Line material				-
2.1	Transmission Line material Towers Steel				l
2.1	Conductor		1		
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 3.1	Taxes and Duties Custom Duty				
3.2	Other Taxes & Duties				
5.2	*Pertaining to Transmission				
					Due to
					quantity
		67.18	48.16	19.02	variation
			Actual capital		Reasons
			expenditure(Openi	Vaiation	for
	Break Down	As per original estimates (Rs in Crs)		(B-C)	Variation
	A	B	C	D	E
A-7 1	Transmission Line Preliminary works	Construction of Four nos of 132 K	V single circuit transr	nission line (2-Phas	e strung)
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 2.7	Conductor & Earthwire accessories				
2.7	Spares Erection , Stringing & Civil works				
2.0	Total Transmission Line Materials				-
3	Taxes and Duties				
3.1	Custom Duty				
3.2	Other Taxes & Duties				
	*Pertaining to Transmission				
					work
					under
$\vdash$		5.4	Nil Actual capital		progress
			Actual capital expenditure(Openi	Valation	Reasons for
				(B-C)	Variation
	Break Down	As per original estimates (Rs in Crs)			
	Break Down A	As per original estimates (Rs in Crs) B	C	D	E
A-8			С	-	=
1	А	В	С	-	=
1 1.1	A Transmission Line Preliminary works Dessign & Engineering	В	С	-	=
1	A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil	В	С	-	=
1 1.1 1.2	A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works	В	С	-	=
1 1.1 1.2 2	A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material	В	С	-	=
1 1.1 1.2 2 2.1	A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel	В	С	-	=
1 1.1 1.2 2 2.1 2.2	A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor	В	С	-	=
1 1.1 1.2 2 2.1 2.2 2.3	A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire	В	С	-	=
1 1.1 1.2 2 2.1 2.2 2.3 2.3 2.4	A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators	В	С	-	=
1 1.1 1.2 2 2.1 2.2 2.3 2.3 2.4 2.5	A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings	В	С	-	=
1 1.1 1.2 2 2.1 2.2 2.3 2.3 2.4	A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators	В	С	-	=
1 1.1 1.2 2.1 2.2 2.3 2.4 2.5 2.6	A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories	В	С	-	=
1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7	A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares	В	С	-	=
1 1.1 1.2 2.1 2.3 2.4 2.4 2.5 2.6 2.7 2.8 3	A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works	В	С	-	=
1 1.1 1.2 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8	A Transmission Line Preliminary works Dessign & Engineering Preliminary investigation ,Right of way,forest clearance ,PTCC,general civil Total Preliminary works Transmission Line material Towers Steel Conductor Earth Wire Insulators Hardware Fittings Conductor & Earthwire accessories Spares Erection , Stringing & Civil works Total Transmission Line Materials	В	С	-	=

	*Pertaining to Transmission				
					Work yet
					to be
		103.14	nil		awarded
			Actual capital		Reasons
			expenditure(Openi	Vaiation	for
	Break Down	As per original estimates (Rs in Crs)	ng) ( Rs in Crs)	(B-C)	Variation
	А	В	C	D	E
A-12	Transmission Line	Reconductoring 132 KV Muzaffa	arpur-SKMCH S/C Tra	Insmission Line wit	h HTLS
					Work yet
					to be
		31.04	nil		awarded

## Form No:F5

	(i) Break -un Pr	oject Cost for GSS/Bay		Rs. Crore
	(i) bleak -up F	Actual capital		Reasons
		expenditure(Op	ni Voiation	for
No	Break Down			
No	Break Down	As per original estimates (Rs in Crs) ng) (Rs in Crs) B C	(B-C) D	Variation E
A 1	A		-	1
A-1	Вау	two numbers of 132 KV Line bays each at Bettiah (13	2/33 KV) GSS and	Due to
		6.95 7.02	0.07	
		6.95 7.02	-0.07	quantity
		A stored as a shall		variation
		Actual capital		Reasons
	Devel Deven	expenditure(Op		for
No	Break Down	As per original estimates (Rs in Crs) ng) (Rs in Crs)	(B-C)	Variation
	A		D	E
A-2	Вау	Construction of Four nos of 132 KV Line bay for pov	er supply from GS	
		14.0C Nil		work
		14.06 Nil		under
		A stored as a shall		progress
		Actual capital		Reasons
		expenditure(Op		for
No	Break Down	As per original estimates (Rs in Crs) ng) (Rs in Crs)	(B-C)	Variation
	Α		D	E
A-3	Вау	Pkg A-Construction of 3 Nos of 132 KV Transmissio	line bays at GSS I	Begusarai (02
<b>D</b> 1		13.69 Nil		
B1.	Substations	Construction of 132/33KV GSS Chakiya, Jhan	harpur & Pakrio	layal agains
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				
6.4	Compensating Equipment(Reactor, 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		1	
10	Overheads			
10	Establishment		1	
10			1	
10	Audit& Accounts			
10 10	Contingency Total Overheads			

11 12 12 12 12 12 12	Total Cost IDC,FC,FERV& Hedging Cost Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV&	413000550	442107212.5	-29106662.5	Change in length of road and addition of approach road construct ion in scope of work
15	Capital Cost Incl. IDC, PC, EKV&				
B3	Substations	Construction of 132/33	KV GSS Siwan Ne	w against NIT No	0
4.1	Preliminary works & land Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
5	Total Preliminary works & land Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage				
5.4 5.5	Foundation for structures Misc. Civil Works				
5.5	Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6 6.7	HVDC package 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				
9.1	Construction and pre - Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
10	Total Construction and pre				
10 10	Overheads Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	235126510	247069909	-11943399	Variation in quantity as per engineeri ng drawing
					Ŭ
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC) Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
15					
B4	Substations	Construction of 132/33KV GS	S Hathua, Mahar	ajganj, Narkaiya	ganj &
4	Preliminary works & land				]
4.1	Desgin & Engineering Land				
4.2	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building Township & Colony				
5.2	Roads and Drainage				
5.5	results and Dramage	L		1	·

				-	
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6					
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6					
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				
0					
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
10	Total Construction and pre				
10					
10					
10					
10					
	Total Overheads				
					Dur (
					Due to
1.1	T-+-1 C+	702441500	012004400	24542000	quantity
11	Total Cost	792441508	816984408	-24542900	variation
10					
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				
10					
13	Capital Cost inci. IDC,FC,FERV&				
D.5					
B5	Substations	Augmentation of existing 132/33	3 KV GSS Ekma (1	$1 \times 20 \times 10^{-1} \times 10^{-$	VIVA) by
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
5	Total Preliminary works & land				
5.1					
5.2	Control Room & Office Building Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
5.5	Total Civil Works				
6					
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
	Compensating Equipment(Reactor,				-
6.4	Compensating Equipment(Reactor, CONTROL, Relay&				
6.5	PLCC		1		
6.6		1			
6.7	Bus Bars /conductors/Insulators		<u> </u>		
6.8	Outdoor lighting	1			
6.9	Emergency D.Gset	1			
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					
10	Establishment				
10					
10					
	Total Overheads				
					1
11	Total Cost	381956396	NIL	NA	
11	Total Cost	381956396	NIL	NA	
11	Total Cost IDC,FC,FERV& Hedging Cost	381956396	NIL	NA	
	IDC,FC,FERV& Hedging Cost	381956396	NIL	NA	

			1		
12	Hedging Cost Total of IDC , FC, FERV& Hedging				
	I Utal UI IDC, FC, FEK V& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
B6	Substations	Capacity augmentation of G	SSS Hajipur, Gopa	lganj & Darbhan	ga by
4.1	Preliminary works & land Desgin & Engineering				
4.1	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2 5.3	Township & Colony 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 Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators			ļ]	
6.8 6.9	Outdoor lighting				
6.9	Emergency D.Gset 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 10	Establishment Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	670800000	NIL	NA	
12	IDC EC EEDV& Undring Cost				
12	IDC,FC,FERV& Hedging Cost Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
	Total of IDC, FC, FERV& Hedging				
10			-		
13	Capital Cost inci. IDC,FC,FERV&				
B8	Substations	Construction of 02 Nos. 132	KV line bays each :	at GSS Muzaffarı	mr &
4	Preliminary works & land		it v inte buys cuent		ar a
4.1	Desgin & Engineering				
4.2	Land			ļ]	
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			ł		
6.2	Switchgear (CT,PT,Circuit Breaker,				
	Transformers				
6.3	Transformers Compensating Equipment(Reactor,				
6.3 6.4	Transformers Compensating Equipment(Reactor, CONTROL, Relay&				
6.3 6.4 6.5	Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC				
6.3 6.4	Transformers Compensating Equipment(Reactor, CONTROL, Relay&				
6.3 6.4 6.5 6.6 6.7 6.8	Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package				
6.3 6.4 6.5 6.6 6.7 6.8 6.9	Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset				
6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1	Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System				
6.3 6.4 6.5 6.6 6.7 6.8 6.9	Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard				
6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1	Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment				
6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1	Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares				
6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 7	Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment				
6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 7 7 8 8	Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre -				
6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 7 7 8	Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties				

10         Contraction functions         Image: Contraction functions         Image: Contraction functions           10         Methods (account)         Image: Contraction functions         Image: Contraction functions           10         Methods (account)         Image: Contraction functions         Image: Contraction functions           10         Methods (account)         Image: Contraction functions         Image: Contraction functions           11         Trad (Contraction functions)         Image: Contraction functions         Image: Contraction functions           12         Methods (Contraction functions)         Image: Contraction functions         Image: Contraction functions         Image: Contraction functions           13         Methods (Contraction functions)         Image: Contraction functions         Image: Contraction functions         Image: Contraction functions           14         Methods (Contraction functions)         Image: Contraction functions         Image: Contraction functions         Image: Contraction functions           13         Methods (Contractions)         Image: Contraction functions         Image: Contraction functions         Image: Contraction functions           14         Methods (Contractions)         Image: Contraction functions         Image: Contractions functions         Image: Contractions functions           15         Contractions functions         Imag			1		1	
10         Overhald         Image: Second Sec	9.3	construction Insurance				
18         Fueld allowing	10	*		<u> </u>		
10         Add& Actions	-			<u> </u>		
10         Contagency         Control         Status           1         Total Cost         9320000         NR         NA           12         DCCCTERVA Hedging Cost         1         1           12         DCCCTERVA Hedging Cost         1         1           12         Decorport Cost         1         1           13         Decorport Cost         1         1           14         Dotal ADD, R., TERNA Hedging Cost         1         1           15         Cognet Cost insis DCC CPRVA         1         1           16         Debig A Engine Cont         1         1         1           18         Cognet Cost insis DCC CPRVA         1         1         1           19         Statisting         Construction of Q No. 133 V fine lay at COS Munihologer & Q No. 133 V fine lay at COS Munihologer & Q No. 133 V fine lay at COS Munihologer & Q No. 133 V fine lay at COS Munihologer & Q No. 133 V fine lay at COS Munihologer & Q No. 133 V fine lay at COS Munihologer & Q No. 134 V fine lay at COS Munihologer & Q No. 134 V fine lay at COS Munihologer & Q No. 135 V fine lay at COS Munihologer & Q No. 134 V fine lay at COS Munihologer & Q No. 134 V fine lay at COS Munihologer & Q No. 134 V fine lay at COS Munihologer & Q No. 134 V fine lay at COS Munihologer & Q No. 134 V fine lay at COS Munihologer & Q No. 134 V fine lay at COS Munihologer & Q No. 134 V fine lay at COS Munihologer & Q No. 144 V fine lay at COS Munihologer & Q No. 144 V fine lay a	-					
Total Orocheck         920000         Nil.         NA           11         Total Cont         920000         Nil.         NA           12         DEVICT-124V2-1 Ioging Cont         Image Control Contro Control Control Control Control Control Control Control						
Image: Constraint of the section of the sec						
12         DC:KUBSW& Heiging Cost         Image Section (IRX)           13         herrsy Dering Costmic (IRX)         Image Section (IRX)           14         Trail of TEC, TE, TEFA Heiging         Image Section (IRX)           13         Condition (IRX)         Image Section (IRX)           14         Dering Section (IRX)         Image Section (IRX)           15         Condition (IRX)         Conduction of 2.No. DBK Vine lay at CSS Remaining Cost           14         Dering A Sequence (IRX)         Image Section (IRX)           15         Conduction of 2.No. DBK Vine lay at CSS Remaining Cost         Image Section (IRX)           14         Dering A Sequence (IRX)         Image Section (IRX)         Image Section (IRX)           15         Common Cost A Sing Building         Image Section (IRX)         Image Section (IRX)           15         Common Cost A Sing Building         Image Section (IRX)         Image Section (IRX)           16         Stratege Section (IRX)         Image Section (IRX)         Image Section (IRX)           16         Stratege Section (IRX)         Image Section (IRX)         Image Section (IRX)           17         Tornelly A Cost         Image Section (IRX)         Image Section (IRX)           18         Maccolar A Sing A Cost         Image Section (IRX)         Image Secti						
12         Interest Paring Example Ray Variation         Image Paring Par	11	Total Cost	93200000	NIL	NA	
12         Interest Paring Example Ray Variation         Image Paring Par						
12         Breign Exchange Sate Variation						
12         Hedging Cost         Instantions         Instantions           13         Capital Cost int, IDC FC FERX         Construction of 92 No. 132K Interby at 638 Remainingur & 12 No.           14         Desgin & Substations         Construction of 92 No. 132K Interby at 638 Remainingur & 12 No.           14.1         Desgin & Substations         Construction of 92 No. 132K Interby at 638 Remainingur & 12 No.           15.1         Construction of 92 No. 132K Interby at 638 Remainingur & 12 No.         Interby at 72 No.           15.1         Construction of 92 No. 132K Interby at 638 Remainingur & 12 No.         Interby at 72 No.           15.1         Construction of 92 No. 132K Interby at 638 Remainingur & 12 No.         Interby at 72 No.           15.1         Construction of 92 No. 132K Interby at 638 Remainingur & 12 No.         Interby at 72 No.           15.2         Transformation of outcomes         Interby at 72 No.         Interby at 72 No.           15.3         Reads and Drainage         Interby at 72 No.         Interby at 72 No.           15.3         No. Coul Works         Interby at 72 No.         Interby at 72 No.           15.3         No. Coul Works         Interby at 72 No.         Interby at 72 No.           16.4         Ord MRD.         Interby at 72 No.         Interby at 72 No.           17.4         No. Coul Works         Inte						
Total of IDC. 7C, FRIVX.         Formation         Formation           13         Capital Cost inc. IDC/C/FRIVX.         Construction of Q3 Nos. 131K/Time here at G88 Numbiology & Q3 Nos           99         Substations         Construction of Q3 Nos. 131K/Time here at G88 Numbiology & Q3 Nos           41         Design & Englaconic g         Image: Construction of Q3 Nos. 131K/Time here at G88 Numbiology & Q3 Nos           42         State provide         Image: Construction of Q3 Nos. 131K/Time here at G88 Numbiology & Q3 Nos           43         State provide         Image: Construction of Q3 Nos. 131K/Time here at G88 Numbiology & Q3 Nos           44         Design & Kapital State						
Image: Control Control Control Control of 02 Nos. 132KV line hay at CSS Rumised/oper 6.02 Nos           Image: Control Contrel Control Contecle Control Control Control Control Control Contr	12					
Image: solution of the		Total of IDC, FC, FERV& Hedging				
Image: solution of the	13	Capital Cost inci IDC EC EERV&				
	15	Capital Cost Incl. IDC, I C, I EK V&				
	B9	Substations	Construction of 02 Nos. 132K	V line bay at GSS	Runnisaidpur &	02 Nos
4.3         Land	4					
43         Step reparation	4.1	Desgin & Engineering				
Total Poliminary works & land         Image: state of the statuting state of the state of	4.2	Land				
5         Civil Works	4.3					
5.1         Control Rom & Office Building				<b> </b>		
5.2         Torevalup & Colony				l		
53         Roads and Drainage						
54         Foundation for structures           55         Misc, Crivil Works           6         Subtainin Equipments           6.1         Switchgart CLP/L Cruvil Breaker,           6.2         Transformers           6.4         CONTROL, Relay&           6.5         PLCC           6.6         HVDC package           6.7         Bus Bars Conductor Insulators           6.8         Outdoor lighting           6.9         Construction Relations           6.1         Gramspress, D.Osst           6.2         Trace and Duties           7         Total Substation Equipment           6.1         Gramspress, D.Osst           7         Total Substation Equipment           7         Total Substation Equipment           9         Construction and pre-           9.1         Structure for switchiged           9.2         Tools and Plants           9.3         construction and pre-           10         Overheads           11         Total Cost           12         Total Substation Equipment           13         Construction and pre-           14         Total Substation Equipment           15         Con				<u> </u>		
5.5         Misc. Civil Works		6				
Total Coil Works         Image: Cript Creat Breaker, Cript Breaker, Breaker, Br					1	
6         Substation Equipments	2.0			[	1	
62         Transformers	6					
63         CONTROL Relay&						
6.4         CONTROL, Relay&					<u>_</u>	
6.5         PLC           6.6         HVDC package           6.7         Bus Bars 'conductors/Insulators           6.8         Outdoor lighting           6.9         Emergency D.Get           6.1         Grounding System           6.1         Structure for switchyard           7         Total Submation Enginereat           8         Taxes and Daties           9         Construction and pre-           9.1         Site supervision & site admin.etc           9.2         Tooks and Pants           9.3         construction Insurance           10         Overheads           10         Construction and pre-           10         Overheads           11         Total Cost           12         Interest During Construction Insurance           13         Construction Insurance           14         Total Overheads           15         Total Overheads           16         Construction Insurance           17         Total Overheads           18         Total Overheads           19         Total Overheads           10         Acatit& Avaitain           12         Increstonal Avaitain <t< td=""><th></th><td></td><td></td><td>l</td><td> </td><td></td></t<>				l		
66         HYDC package            67         Bu Bury conductors/insulators            68         Outdoot lighting            69         Emergency D Get            61         Grounding System            61         Structure for switchyard            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 may race            10         Audiak Accounts            10         Construction and pre            10         Construction and pre            11         Total Cost         123100000         NIL           10         Audiak Accounts             11         Total Overheads             12         Increst baring Construction(IDC)             12         Increst baring Construction(IDC)             13         Capital Cost inci				ŀ		
6.7         Bus Ray Xonducors/Insulators				<u> </u>		
68         Ondoor lighting         Image: Construction of switchyaid         Image: Construction of switchyaid           6.1         Sincuture for switchyaid         Image: Construction of switchyaid         Image: Construction of Switchyaid           7         Sparse         Image: Construction of Switchyaid         Image: Construction of Switchyaid           8         Taxes and Duties         Image: Construction and pre-         Image: Construction and pre-           9.1         Site supervision & site adminet:         Image: Construction and pre-         Image: Construction and pre-           9.2         Tools and Plants         Image: Construction and pre-         Image: Construction and pre-           9.3         construction and pre-         Image: Construction and pre-         Image: Construction and pre-           10         Overheads         Image: Construction and pre-         Image: Construction and pre-           10         Audite Accounts         Image: Construction and pre-         Image: Construction and pre-           11         Total Construction and pre-         Image: Construction and pre-         Image: Construction and pre-           12         Interset Daring Construction(DC)         Image: Construction(DC)         Image: Construction Construction CD)           12         Interset Daring Construction(DC)         Image: Constinclion Construction of 132/33 KV, 2x20MVA Nirmali, 2x		· · ·		<u> </u>		
69         Emergency D.Gst						
6.1         Grounding System         Image: Construction of subsystem           6.1         Structure for subsicity and         Image: Construction of Subsystem           7         Spares         Image: Construction and pre-           9         Construction and pre-         Image: Construction and pre-           9.1         Site supervision & site admate         Image: Construction and pre-           9.2         Tools and Plants         Image: Construction and pre-           9.3         construction and pre-         Image: Construction and pre-           9.3         construction and pre-         Image: Construction and pre-           10         Overheads         Image: Construction and pre-           10         Audite Accounts         Image: Construction and pre-           10         Contingency         Image: Construction(IDC)           11         Total Cost         123100000           12         Increst During Costruction(IDC)         Image: Costruction(IDC)           12         Increst During Costruction(IDC)         Image: Costruction(IDC)           13         Capital Cost inci. IDC.FC.FERV&         Image: Cost           12         Increst During Costruction(IDC)         Image: Cost           13         Capital Cost inci. IDC.FC.FERV&         Image: Cost <tr< th=""><th></th><th></th><th></th><th></th><th></th><th></th></tr<>						
6.1         Structure for switchyard				[	1	
7         Spares         1           8         Taxes and Duties         1           9         Construction and pre -         1           9.1         Site supervision & site admnete         1           9.2         Tools and Plants         1           9.3         construction survace         1           10         Overheads         1           10         Establishment         1           10         Audik Accounts         1           10         Contingency         1           11         Total Cost         123100000           12         IDC,FC,FERV& Hedging Cost         1           12         IDC,FC,FERV& Hedging Cost         1           12         IDC,FC,FERV& Hedging         1           12         Foreign Exchang Rate Variation         1           12         IDC,FC,FERV& Hedging         1           13         Capital Cost inci. IDC,FC,FERV&         1           13         Capital Cost inci. IDC,FC,FERV&         1           14         IDC,FC,FERV& Hedging         1           15         Capital Cost inci. IDC,FC,FERV&         1           16         IDC,FC,FERV& Hedging         1 <t< td=""><th></th><td></td><td></td><td></td><td></td><td></td></t<>						
8         Taxes and Duties         Image: Construction and pre-           9         Construction and pre-         9           9.1         Site supervision & site admn.etc         9.2           9.2         Tools and Plants         9           9.3         construction Insurance         9           10         Overheads         9           10         Audit & Accounts         9           10         Constingency         9           11         Total Cost         12           12         IDC./FC.FER.V& Hedging Cost         10           12         Interest During ConstructionIDC)         12           12         Interest During ConstructionIDC)         14           13         Capital Cost inci. IDC./FC.FER.V&         14           14         Total OrstructionIDC)         14           15         Interest During ConstructionIDC)         14           16         Capital Cost inci. IDC./FC.FER.V&         14           17         Interest During ConstructionIDC)         14           18         Capital Cost inci. IDC./FC.FER.V&         14           19         Interest During ConstructionIDC)         14           10         Capital Cost inci. IDC./FC.FER.V&         14 <th></th> <td>Total Substation Equipment</td> <td></td> <td></td> <td></td> <td></td>		Total Substation Equipment				
9         Construction and pre         9           9.1         Site supervision & site adm.etc         9.1           9.2         Tools and Plants         9.1           9.3         construction Insurance         10           10         Overheads         10           10         Audit& Accounts         10           10         Audit& Accounts         10           10         Contingency         11           11         Total Overheads         12           12         IDC.FC.FERVE Hedging Cost         12           12         Interest During Construction(IDC)         12           12         Interest During Construction(IDC)         14           13         Capital Cost in IDC.FC.FERV& Hedging Cost         14           14         Total of IDC. FC.FERV& Hedging Cost         14           15         Capital Cost in IDC.FC.FERV&         14           16         IDC.FC.FERV& Hedging Cost         14           17         IDC.FC.FERV& Hedging Cost         14           18         Capital Cost in: IDC.FC.FERV&         14           19         IDC.FC.FERV& Hedging Cost         14           10         Lapting Cost tructon(IDC)         14           12		Spares				
9.1         Site supervision & site admente	8	Taxes and Duties		ļ		
9.1         Site supervision & site admente						
9.2         Tools and Plans						
9.3         construction Insurance						
Total Construction and pre         Image: Construction and pre           10         Overheads         Image: Construction and pre           10         Baselishment         Image: Construction and pre           10         Audit& Accounts         Image: Construction and pre           10         Audit& Accounts         Image: Construction and pre           11         Total Overheads         Image: Construction and pre           11         Total Cost         123100000         NIL         NA           12         Increst During Construction(IDC)         Image: Cost         Ima						
10         Overheads         Image: construction of 132/33 KV, 2 x20 MVA, 2 x 20 MVA,	7.5					
10       Audit& Accounts       Image: Contingency of the contingency of the contingency of the contingency of the contingency of the contingency of the contingency of the contingency of the contingency of the contingency of the contingency of the contingency of the contingency of the continue of the conteon the continue of the continue of the cont	10					
10         Contingency         Image: contingency         Image: contingency           11         Total Overheads         Image: contingency         Image: contingency           11         Total Cost         123100000         NIL         NA           12         IDC,PC,FERV& Hedging Cost         Image: contingency         Image: contingency         Image: contingency           12         Interest During Construction(IDC)         Image: contingency         Image: contingency         Image: contingency           12         Hedging Cost         Image: contingency         Image: contingency         Image: contingency         Image: contingency           13         Capital Cost inci. IDC,PC,FERV&         Image: contingency         Image: contingencontingency         Image: contingencontingen						
Total Overheads         Image: Construction of 12/33 KV, 2 x20 MVA, 2 x 20 MVA, 3 Site preparation           4         Preliminary works & land         Image: A = 1           4         Site preparation         Image: A = 1           5.1         Control Room & 0 files Building         Image: A = 1           5.3         Roads and Drainage         Image: A = 1		Audit& Accounts				
Image: construction of 132/33 KV, 2 x20MVA Nirmali, 2 x 20 MVA, 2 x	10				ļ	
12     IDC,FC,FERV& Hedging Cost     IDC,FC       12     Interest During Construction(IDC)     IDC       12     Foreign Exchange Rate Variation     IDC       12     Hedging Cost     IDC       12     Hedging Cost     IDC       13     Capital Cost inci. IDC,FC,FERV&     IDC       14     IDC,FC,FERV& Hedging     IDC       15     Capital Cost inci. IDC,FC,FERV&     IDC       16     IDC,FC,FERV& Hedging Cost     IDC       17     Interest During Construction(IDC)     IDC       12     IDC,FC,FERV& Hedging Cost     IDC       12     Interest During Construction(IDC)     IDC       12     Foreign Exchange Rate Variation     IDC       12     Foreign Exchange Rate Variation     IDC       12     Total of IDC, FC, FERV& Hedging     IDC       13     Capital Cost inci. IDC, PC, FERV&     IDC       14     Orapital Cost inci. IDC, FC, FERV&     IDC       13     Capital Cost inci. IDC, FC, FERV&     IDC       14     Preliminary works & land     IDC       15     Control Room & Office Building     IDC       16     Substations     Construction of 132/33 KV, 2 x20MVA Nirmali, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA		Total Overheads		l		
12     IDC,FC,FERV& Hedging Cost     IDC,FC       12     Interest During Construction(IDC)     IDC       12     Foreign Exchange Rate Variation     IDC       12     Hedging Cost     IDC       12     Hedging Cost     IDC       13     Capital Cost inci. IDC,FC,FERV&     IDC       14     IDC,FC,FERV& Hedging     IDC       15     Capital Cost inci. IDC,FC,FERV&     IDC       16     IDC,FC,FERV& Hedging Cost     IDC       17     Interest During Construction(IDC)     IDC       12     IDC,FC,FERV& Hedging Cost     IDC       12     Interest During Construction(IDC)     IDC       12     Foreign Exchange Rate Variation     IDC       12     Foreign Exchange Rate Variation     IDC       12     Total of IDC, FC, FERV& Hedging     IDC       13     Capital Cost inci. IDC, PC, FERV&     IDC       14     Orapital Cost inci. IDC, FC, FERV&     IDC       13     Capital Cost inci. IDC, FC, FERV&     IDC       14     Preliminary works & land     IDC       15     Control Room & Office Building     IDC       16     Substations     Construction of 132/33 KV, 2 x20MVA Nirmali, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA		<b>T</b> .10.	100100000	NIII	ХТ А	
12       Interest During Construction(IDC)       Image Rate Variation         12       Foreign Exchange Rate Variation       Image Rate Variation         12       Total of IDC, FC, FERV& Hedging       Image Rate Variation         13       Capital Cost inci. IDC,FC,FERV&       Image Rate Variation         13       Capital Cost inci. IDC,FC,FERV&       Image Rate Variation         12       IDC,FC,FERV& Hedging Cost       Image Rate Variation         12       Interest During Construction(IDC)       Image Rate Variation         12       Interest During Construction(IDC)       Image Rate Variation         12       Hedging Cost       Image Rate Variation         12       Hedging Cost       Image Rate Variation         13       Capital Cost inci. IDC,FC,FERV&       Image Rate Variation         14       Hedging Cost       Image Rate Variation         15       Construction of 132/33 KV, 2 x20MVA Nirmali, 2 x 20 MVA, 2 x 20 MVA         4       Preliminary works & land       Image Rate Variation         4.1       Desgin & Engineering       Image Rate Variation         4.2       Image Land       Image Rate Variation         4.3       Site preparation       Image Rate Variation         5       Civil Works       Image Rate Variation	11	Total Cost	123100000	NIL	NA	
12       Interest During Construction(IDC)       Image Rate Variation         12       Foreign Exchange Rate Variation       Image Rate Variation         12       Total of IDC, FC, FERV& Hedging       Image Rate Variation         13       Capital Cost inci. IDC,FC,FERV&       Image Rate Variation         13       Capital Cost inci. IDC,FC,FERV&       Image Rate Variation         12       IDC,FC,FERV& Hedging Cost       Image Rate Variation         12       Interest During Construction(IDC)       Image Rate Variation         12       Interest During Construction(IDC)       Image Rate Variation         12       Hedging Cost       Image Rate Variation         12       Hedging Cost       Image Rate Variation         13       Capital Cost inci. IDC,FC,FERV&       Image Rate Variation         14       Hedging Cost       Image Rate Variation         15       Construction of 132/33 KV, 2 x20MVA Nirmali, 2 x 20 MVA, 2 x 20 MVA         4       Preliminary works & land       Image Rate Variation         4.1       Desgin & Engineering       Image Rate Variation         4.2       Image Land       Image Rate Variation         4.3       Site preparation       Image Rate Variation         5       Civil Works       Image Rate Variation	12	IDC FC FERV& Hedging Cost		<u> </u>		
12       Foreign Exchange Rate Variation       Image: Construction of 132/33 KV, 2 x20 MVA, 1 x x0 MVA, 2 x 20 MV					1	
12       Hedging Cost       Image: Cost of the cost o						
13       Capital Cost inci. IDC,FC,FERV&       Image: Capital Cost inci. IDC,FC,FERV&         13       Capital Cost inci. IDC,FC,FERV&       Image: Capital Cost inci. IDC,FC,FERV&         12       IDC,FC,FERV& Hedging Cost       Image: Capital Cost inci. IDC, FC, FERV&         12       Interest During Construction(IDC)       Image: Capital Cost inci. IDC, FC, FERV&         12       Hedging Cost       Image: Capital Cost inci. IDC, FC, FERV&         13       Capital Cost inci. IDC, FC, FERV&       Image: Capital Cost inci. IDC, FC, FERV&         810       Substations       Construction of 132/33 KV, 2 x20 MVA, 2 x 20 MVA, 2 x 20 MVA         4       Preliminary works & land       Image: Capital Cost inci. IDC, FC, FERV&         4.1       Desgin & Engineering       Image: Capital Cost inci. IDC, FC, FERV&         4.3       Site preparation       Image: Capital Cost inci. IDC, FC, FERV&         4.3       Site preparation       Image: Capital Cost inci. IDC, FC, FERV&         4.3       Site preparation       Image: Capital Cost inci. IDC, FC, FERV&         5.1       Control Room & Grince Building       Image: Capital Cost inci. IDC, FC, FERV&         5.2       Township & Colony       Image: Capital Cost inci. IDC, FC, FERV&         5.3       Roads and Drainage       Image: Capital Cost inci. IDC, FC, FERV&	12	Hedging Cost				
12       IDC,FC,FERV& Hedging Cost       Image: Cost of the second secon		Total of IDC , FC, FERV& Hedging				
12       IDC,FC,FERV& Hedging Cost       Image: Cost of the second secon				ļ		
12       Interest During Construction(IDC)         12       Foreign Exchange Rate Variation         12       Hedging Cost         12       Total of IDC , FC, FERV& Hedging         13       Capital Cost inci. IDC,FC,FERV&         B10       Substations         4       Preliminary works & land         4.1       Desgin & Engineering         4.2       Land         4.3       Site preparation         5       Civil Works         5.1       Control Room & Office Building         5.2       Township & Colony         5.3       Roads and Drainage	13	Capital Cost inci. IDC,FC,FERV&		l		
12       Interest During Construction(IDC)         12       Foreign Exchange Rate Variation         12       Hedging Cost         12       Total of IDC , FC, FERV& Hedging         13       Capital Cost inci. IDC,FC,FERV&         B10       Substations         4       Preliminary works & land         4.1       Desgin & Engineering         4.2       Land         4.3       Site preparation         5       Civil Works         5.1       Control Room & Office Building         5.2       Township & Colony         5.3       Roads and Drainage				<u> </u>		
12       Interest During Construction(IDC)         12       Foreign Exchange Rate Variation         12       Hedging Cost         12       Total of IDC , FC, FERV& Hedging         13       Capital Cost inci. IDC,FC,FERV&         B10       Substations         4       Preliminary works & land         4.1       Desgin & Engineering         4.2       Land         4.3       Site preparation         5       Civil Works         5.1       Control Room & Office Building         5.2       Township & Colony         5.3       Roads and Drainage	12	IDC FC FEDV& Hadning Cost		├		
12       Foreign Exchange Rate Variation       Image: Construction of 12 and a state of the state o				l		
12       Hedging Cost         Total of IDC, FC, FERV& Hedging       Image: Construction of 132/33 KV, 2 x20MVA Nirmali, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 4         B10       Substations       Construction of 132/33 KV, 2 x20MVA Nirmali, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 4         4       Preliminary works & land       Image: Construction of 132/33 KV, 2 x20MVA Nirmali, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 2 x 20 MVA, 4         4.1       Desgin & Engineering       Image: Construction of 132/33 KV, 2 x20 MVA, 2 x 20 MVA, 4         4.3       Site preparation       Image: Construction of 132/33 KV, 2 x 20 MVA, 2 x 20 MVA, 5         5       Civil Works       Image: Control Room & Office Building       Image: Control Room & Office Building         5.2       Township & Colony       Image: Control Room & Office Building       Image: Control Room & Office Building         5.3       Roads and Drainage       Image: Control Room & Office Building       Image: Control Room & Office Building						
Total of IDC , FC, FERV& Hedging       Image: Construction of I32/33 KV, 2 x20MVA Nirmali, 2 x 20 MVA, 2 x 20 MVA         13       Capital Cost inci. IDC,FC,FERV&       Image: Construction of I32/33 KV, 2 x20MVA Nirmali, 2 x 20 MVA, 2 x 20 MVA         4       Preliminary works & land       Image: Construction of I32/33 KV, 2 x20MVA Nirmali, 2 x 20 MVA, 2 x 20 MVA         4.1       Desgin & Engineering       Image: Construction of I32/33 KV, 2 x20MVA Nirmali, 2 x 20 MVA, 2 x 20 MVA         4.2       Land       Image: Construction of I32/33 KV, 2 x20MVA Nirmali, 2 x 20 MVA, 2 x 20 MVA         4.3       Site preparation       Image: Construction of I32/33 KV, 2 x20MVA         5       Civil Works & land       Image: Construction of I32/33 KV, 2 x20MVA         5.1       Control Room & Office Building       Image: Construction of I32/33 KV, 2 x20MVA         5.2       Township & Colony       Image: Construction of I32/33 KV, 2 x20MVA         5.3       Roads and Drainage       Image: Construction of I32/33 KV, 2 x20MVA		Hedging Cost				
B10       Substations       Construction of 132/33 KV, 2 x20MVA Nirmali, 2 x 20 MVA, 2 x 20 MVA         4       Preliminary works & land       4.1         4.1       Desgin & Engineering       4.1         4.2       Land       4.1         4.3       Site preparation       4.1         5       Civil Works       4.1         5.1       Control Room & Office Building       4.1         5.2       Township & Colony       4.1         5.3       Roads and Drainage       4.1						
B10       Substations       Construction of 132/33 KV, 2 x20MVA Nirmali, 2 x 20 MVA, 2 x 20 MVA         4       Preliminary works & land       4.1         4.1       Desgin & Engineering       4.1         4.2       Land       4.1         4.3       Site preparation       4.1         5       Civil Works       4.1         5.1       Control Room & Office Building       4.1         5.2       Township & Colony       4.1         5.3       Roads and Drainage       4.1					<u>_</u>	
4       Preliminary works & land						20.3
4.1       Desgin & Engineering       Image: Constraint of the second sec			Construction of 132/33 KV, 2 x2	20MVA Nirmali, 2	2 x 20 MVA, 2 x	20 MVA
4.2     Land     Image: Constraint of the second se		•	<u> </u>			
4.3       Site preparation       Image: Control Room & Control				<u> </u>		
Total Preliminary works & land     Image: Clivit Works       5     Civit Works     Image: Clivit Works       5.1     Control Room & Office Building     Image: Clivit Works       5.2     Township & Colony     Image: Clivit Works       5.3     Roads and Drainage     Image: Clivit Works						
5     Civil Works       5.1     Control Room & Office Building       5.2     Township & Colony       5.3     Roads and Drainage					1	
5.1     Control Room & Office Building       5.2     Township & Colony       5.3     Roads and Drainage	5			1		
5.2     Township & Colony       5.3     Roads and Drainage						
		Township & Colony				
5.4 Foundation for structures		Roads and Drainage				

5.5	M. C. IW I				
5.5	Misc. Civil Works				
6	Total Civil Works Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
-	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				
0					
9	Construction and pre -				
9.1 9.2	Site supervision & site admn.etc				
9.2	Tools and Plants construction Insurance				
9.5	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts	1			1
10	Contingency		<u> </u>		
10	Total Overheads	1	1		ł
			1		
					Due to
					quantity
11	Total Cost	Rs.732441254	Rs.788856312	Rs.56415058	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&				
1					
R11	Substations	Construction of 2 x20MVA	132/32KV CSS To	ronur Toghro on	d Simri
<b>B11</b>	Substations Preliminary works & land	Construction of 2 x20MVA ,	132/33KV GSS Ta	rapur, Teghra an	d Simri
4	Preliminary works & land	Construction of 2 x20MVA ,	132/33KV GSS Ta	rapur, Teghra an	d Simri
4 4.1	Preliminary works & land Desgin & Engineering	Construction of 2 x20MVA ,	132/33KV GSS Ta	rapur, Teghra an	d Simri
4	Preliminary works & land Desgin & Engineering Land	Construction of 2 x20MVA ,	132/33KV GSS Ta	rapur, Teghra an	d Simri
4.1 4.2	Preliminary works & land Desgin & Engineering	Construction of 2 x20MVA ,	132/33KV GSS Tar	rapur, Teghra an	d Simri
4 4.1 4.2	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
4 4.1 4.2 4.3	Preliminary works & land Desgin & Engineering Land Site preparation	Construction of 2 x20MVA ,	132/33KV GSS Ta	rapur, Teghra an	d Simri
4 4.1 4.2 4.3 5	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works	Construction of 2 x20MVA ,	132/33KV GSS Ta	rapur, Teghra an	d Simri
4 4.1 4.2 4.3 5 5.1	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building	Construction of 2 x20MVA ,	132/33KV GSS Ta	rapur, Teghra an	d Simri
$ \begin{array}{r}     4 \\     4.1 \\     4.2 \\     4.3 \\     \hline     5 \\     5.1 \\     5.2 \\     5.3 \\     5.4 \\   \end{array} $	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures	Construction of 2 x20MVA ,	132/33KV GSS Ta	rapur, Teghra an	d Simri
4 4.1 4.2 4.3 5 5.1 5.2 5.3	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works	Construction of 2 x20MVA ,	132/33KV GSS Ta	rapur, Teghra an	d Simri
4 4.1 4.2 4.3 5 5.1 5.2 5.3 5.4 5.5	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{r} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ \hline \\ 6\end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{r} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ \hline \\ 6\\ 6.1\\ \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker,	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{r} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ \hline \\ 6\\ 6.1\\ 6.2\\ \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{r} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ \hline \\ 6\\ 6.1\\ 6.2\\ 6.3\\ \hline \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor,	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{r} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ \hline \\ 6\\ 6\\ 6.1\\ \hline \\ 6.2\\ \hline \\ 6.3\\ \hline \\ 6.4\end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay&	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{r} 4\\ 4.1\\ 4.2\\ 4.3\\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT, PT, Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{r} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline 5\\ 5.1\\ 5.2\\ 5.3\\ \hline 5.4\\ 5.5\\ \hline 6.6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\\ \hline 6.6\\ \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT, PT, Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{r} 4\\ 4.1\\ 4.2\\ 4.3\\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ 6.6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\\ 6.6\\ 6.7\\ \end{array}$	Preliminary works & land         Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{r} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ \hline \\ 6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\\ 6.6\\ 6.7\\ \hline \\ 6.8\\ \hline \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{r} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5.5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ \hline \\ 6.6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\\ 6.6\\ 6.7\\ \hline \\ 6.8\\ 6.9\\ \hline \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{r} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ \hline \\ 6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\\ 6.6\\ 6.7\\ \hline \\ 6.8\\ \hline \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{r} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5.2\\ 5.3\\ 5.4\\ \hline \\ 5.5\\ \hline \\ 6.6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\\ \hline \\ 6.6\\ 6.7\\ 6.8\\ 6.9\\ \hline \\ 6.1\\ \hline \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri  d Simri
$\begin{array}{r} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5.2\\ 5.3\\ 5.4\\ \hline \\ 5.5\\ \hline \\ 6.6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\\ \hline \\ 6.6\\ 6.7\\ 6.8\\ 6.9\\ \hline \\ 6.1\\ \hline \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{c} 4\\ 4.1\\ 4.2\\ 4.3\\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ 6.6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\\ 6.6\\ 6.7\\ 6.8\\ 6.9\\ 6.1\\ 1\\ 6.1\\ 6.1\\ \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{c} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ \hline \\ 5.3\\ 5.4\\ 5.5\\ \hline \\ 6.6\\ 6.7\\ 6.8\\ 6.9\\ 6.1\\ \hline \\ 6.1\\ \hline \\ 6.7\\ 6.8\\ 6.9\\ \hline \\ 6.1\\ \hline \\ 7\\ 7\end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{c} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ \hline \\ 5.3\\ 5.4\\ 5.5\\ \hline \\ 6.6\\ 6.7\\ 6.8\\ 6.9\\ 6.1\\ \hline \\ 6.1\\ \hline \\ 6.7\\ 6.8\\ 6.9\\ \hline \\ 6.1\\ \hline \\ 7\\ 7\end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri  d Simri
$\begin{array}{c} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ \hline \\ 6.6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\\ 6.6\\ 6.7\\ 6.8\\ 6.9\\ 6.1\\ 6.1\\ \hline \\ 6.1\\ 6.1\\ \hline \\ 7\\ 7\\ 8\\ \hline \\ 9\\ 9.1\\ \hline \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri  d Simri
$\begin{array}{c} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5.5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ \hline \\ 6.6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\\ 6.6\\ 6.7\\ 6.8\\ 6.9\\ 6.1\\ 6.1\\ \hline \\ 7\\ 8\\ \hline \\ 9\\ 9.1\\ 9.2\\ \hline \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri  d Simri
$\begin{array}{c} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ \hline \\ 6.6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\\ 6.6\\ 6.7\\ 6.8\\ 6.9\\ 6.1\\ 6.1\\ \hline \\ 6.1\\ 6.1\\ \hline \\ 7\\ 7\\ 8\\ \hline \\ 9\\ 9.1\\ \hline \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri  d Simri
$\begin{array}{c} 4\\ 4\\ 4.1\\ 4.2\\ 4.3\\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ 6.6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\\ 6.6\\ 6.7\\ 6.8\\ 6.9\\ 6.1\\ 6.1\\ 7\\ 7\\ 8\\ 8\\ 9\\ 9.1\\ 9.2\\ 9.3\\ \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri  d Simri
$\begin{array}{c} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ \hline \\ 5.3\\ 5.4\\ 5.5\\ \hline \\ 6.6\\ 6.7\\ 6.8\\ 6.9\\ 6.1\\ \hline \\ 6.5\\ 6.6\\ 6.7\\ 6.8\\ 6.9\\ 6.1\\ \hline \\ 6.1\\ \hline \\ 9\\ 9\\ 9.1\\ \hline \\ 9.2\\ 9.3\\ \hline \\ 9\\ 9.1\\ \hline \\ 9.2\\ 9.3\\ \hline \\ 10\\ \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{c} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5.5\\ \hline \\ 5.1\\ 5.2\\ 5.3\\ \hline \\ 5.4\\ 5.5\\ \hline \\ 6.6\\ 6.1\\ \hline \\ 6.2\\ 6.3\\ \hline \\ 6.4\\ 6.5\\ \hline \\ 6.6\\ \hline \\ 6.7\\ \hline \\ 6.8\\ \hline \\ 6.9\\ \hline \\ 6.1\\ \hline \\ 6.1\\ \hline \\ 6.1\\ \hline \\ 9.2\\ 9.3\\ \hline \\ 9.1\\ 9.2\\ 9.3\\ \hline \\ 9.1\\ 10\\ 10\\ \hline \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads Establishment	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri  d Simri
$\begin{array}{c} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ \hline \\ 6.6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\\ 6.6\\ 6.7\\ 6.8\\ 6.9\\ 6.1\\ 6.1\\ \hline \\ 6.7\\ 6.8\\ 6.9\\ 6.1\\ 6.1\\ \hline \\ 9\\ 9\\ 9.1\\ 9.2\\ 9.3\\ \hline \\ 99\\ 9.1\\ 9.2\\ 9.3\\ \hline \\ 90\\ 10\\ 10\\ 10\\ 10\\ \hline \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT, PT, Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads Establishment Audit& Accounts	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{c} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5.5\\ \hline \\ 5.1\\ 5.2\\ 5.3\\ \hline \\ 5.4\\ 5.5\\ \hline \\ 6.6\\ 6.1\\ \hline \\ 6.2\\ 6.3\\ 6.4\\ \hline \\ 6.5\\ \hline \\ 6.6\\ \hline \\ 6.7\\ \hline \\ 6.8\\ \hline \\ 6.9\\ \hline \\ 6.1\\ \hline \\ 6.1\\ \hline \\ 6.1\\ \hline \\ 6.1\\ \hline \\ 9.2\\ 9.3\\ \hline \\ 9.1\\ 9.2\\ 9.3\\ \hline \\ 9.1\\ 10\\ 10\\ \hline \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads Establishment Audit& Accounts Contingency	Construction of 2 x20MVA ,	132/33KV GSS Tai	rapur, Teghra an	d Simri
$\begin{array}{c} 4\\ 4.1\\ 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ \hline \\ 6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\\ 6.6\\ 6.7\\ 6.8\\ 6.9\\ 6.1\\ 6.1\\ \hline \\ 6.7\\ 6.8\\ 6.9\\ 6.1\\ 6.1\\ \hline \\ 9\\ 9\\ 9.1\\ 9.2\\ 9.3\\ \hline \\ 9\\ 9.1\\ 9.2\\ 9.3\\ \hline \\ 10\\ 10\\ 10\\ 10\\ \hline \end{array}$	Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT, PT, Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads Establishment Audit& Accounts	Construction of 2 x20MVA ,		rapur, Teghra an	d Simri

11	Total Cost	Rs.806092440	Rs.638444109.35	Rs.167648330.6 5	Due to deletion of GSS Gogri due to unavoida ble 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&				
15	Capital Cost Incl. IDC, PC, PEK V&				
B12	Substations	Construction of 2 x50MVA	, 132/33KV GSS A	raria, Barsoi, Bai	isi and
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		ļ	ļ	
5.4	Foundation for structures				
3.3	Misc. Civil Works Total Civil Works				
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5 6.6	PLCC 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				
7	Total Substation Equipment Spares				
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc		-		
9.2 9.3	Tools and Plants construction Insurance				
9.3	Total Construction and pre				
10	Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency		-		
	Total Overheads				
			1	1	Due to
11	Total Cost	Rs.919184577	Rs.1057744494.0 1	Rs.138559917.0 1	addition of 50MVA Transfor mer in each grid in place of 20MVA.
12	IDC,FC,FERV& Hedging Cost				
12 12	Interest During Construction(IDC) Foreign Exchange Rate Variation				
12	Hedging Cost		<u> </u>	1	
	Total of IDC, FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
B13	Substations	Construction of 3x50MVA	. 132/33KV CSS I	l Raghonur againet	NIT
4	Preliminary works & land		, 102,0011 0001		
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land Civil Works				
5 5.1	Civil Works Control Room & Office Building				
5.2	Township & Colony		1	1	
		1	1		
5.3 5.4	Roads and Drainage				

5.5	Misc. Civil Works			
	Total Civil Works			
6	Substation Equipments			
6.1	Switchgear (CT,PT,Circuit Breaker, Transformers			
6.2	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			
10	Total Construction and pre			
10	Overheads			
10	Establishment Audit& Accounts			┨────┤───
10	Contingency			<u> </u>
10	Total Overheads			
	i otar Overneaus			
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&			
B14	Substations	Bay extension works a	at Kuseshwarsthan, Udakis	shanganj, Sonebarsa an
4	Preliminary works & land			
4.1	Desgin & Engineering			
4.2	Land			
	Site preparation			
4.2 4.3	Site preparation Total Preliminary works & land			
4.2 4.3 5	Site preparation Total Preliminary works & land Civil Works			
4.2 4.3 5 5.1	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building			
4.2 4.3 5 5.1 5.2	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony			
4.2 4.3 5 5.1 5.2 5.3	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage			
4.2 4.3 5 5.1 5.2	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony			
4.2 4.3 5 5.1 5.2 5.3 5.4	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures			
4.2 4.3 5 5.1 5.2 5.3 5.4	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works			
4.2 4.3 5 5.1 5.2 5.3 5.4 5.5	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works			
$ \begin{array}{r}     4.2 \\     4.3 \\     \overline{} \\     5 \\     \overline{} \\     5.1 \\     \overline{} \\     5.2 \\     \overline{} \\     5.3 \\     \overline{} \\     5.4 \\     \overline{} \\      \overline{} \\       \overline{} \\      \overline{} \\      \overline{} \\      \overline{} \\           \overline{} \\            \overline{} \\             \overline{} \\             \overline{} \\    $	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments			
$ \begin{array}{r} 4.2 \\ 4.3 \\ 5 \\ 5.1 \\ 5.2 \\ 5.3 \\ 5.4 \\ 5.5 \\ 6 \\ 6.1 \\ 6.2 \\ 6.3 \\ \end{array} $	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor,			
4.2 4.3 5 5.1 5.2 5.3 5.4 5.5 6 6.1 6.2 6.3 6.4	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay&			
4.2 4.3 5 5.1 5.2 5.3 5.4 5.5 6 6.1 6.2 6.3 6.4 6.5	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC			
$ \begin{array}{r} 4.2\\ 4.3\\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ 6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\\ 6.6\end{array} $	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package			
$ \begin{array}{r} 4.2\\ 4.3\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ 6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\\ 6.6\\ 6.7\\ \end{array} $	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators			
$\begin{array}{c} 4.2 \\ 4.3 \\ \hline \\ 5.5 \\ 5.1 \\ \hline \\ 5.2 \\ \hline \\ 5.3 \\ \hline \\ 5.5 \\ \hline \\ 6.1 \\ 6.2 \\ \hline \\ 6.3 \\ \hline \\ 6.4 \\ \hline \\ 6.5 \\ \hline \\ 6.6 \\ \hline \\ 6.7 \\ \hline \\ 6.8 \\ \end{array}$	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting			
$\begin{array}{r} 4.2 \\ 4.3 \\ \hline \\ 55 \\ 5.1 \\ \hline \\ 5.2 \\ 5.3 \\ \hline \\ 5.4 \\ \hline \\ 6.1 \\ 6.2 \\ \hline \\ 6.3 \\ 6.4 \\ \hline \\ 6.5 \\ \hline \\ 6.6 \\ 6.7 \\ \hline \\ 6.8 \\ \hline \\ 6.9 \\ \hline \end{array}$	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker, Transformers         Compensating Equipment(Reactor, CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset			
$\begin{array}{c} 4.2 \\ 4.3 \\ 5 \\ 5.1 \\ 5.2 \\ 5.3 \\ 5.4 \\ 5.5 \\ \hline 5.5 \\ \hline 6 \\ 6.1 \\ 6.2 \\ 6.3 \\ 6.4 \\ 6.5 \\ 6.6 \\ 6.6 \\ 6.6 \\ 6.6 \\ 6.6 \\ 6.6 \\ 6.8 \\ 6.9 \\ 6.1 \\ \hline \end{array}$	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System			
$\begin{array}{c} 4.2 \\ 4.3 \\ 5 \\ 5.1 \\ 5.2 \\ 5.3 \\ 5.5 \\ \hline \\ 6.1 \\ 6.2 \\ 6.3 \\ 6.4 \\ 6.5 \\ 6.6 \\ 6.7 \\ 6.8 \\ 6.9 \\ \hline \end{array}$	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard			
$\begin{array}{c} 4.2 \\ 4.3 \\ \hline \\ 5 \\ 5.1 \\ 5.2 \\ 5.3 \\ \hline \\ 5.4 \\ \hline \\ 5.5 \\ \hline \\ 6 \\ 6.1 \\ \hline \\ 6.2 \\ \hline \\ 6.3 \\ \hline \\ 6.4 \\ \hline \\ 6.5 \\ \hline \\ 6.6 \\ \hline \\ 6.7 \\ \hline \\ 6.8 \\ \hline \\ 6.9 \\ \hline \\ 6.1 \\ \hline \\ \\ 6.1 \\ \hline \\ \\$	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment			
$\begin{array}{c} 4.2 \\ 4.3 \\ 5 \\ 5.1 \\ 5.2 \\ 5.3 \\ 5.4 \\ 5.5 \\ \hline \\ 6.6 \\ 6.1 \\ 6.2 \\ 6.3 \\ 6.4 \\ 6.5 \\ 6.6 \\ 6.7 \\ 6.8 \\ 6.9 \\ 6.9 \\ 6.1 \\ 6.1 \\ \hline \\ 6.7 \\ 6.8 \\ 6.9 \\ 6.1 \\ 6.1 \\ \hline \\ 7 \\ 7 \end{array}$	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment			
$\begin{array}{c} 4.2 \\ 4.3 \\ \hline \\ 5 \\ 5.1 \\ 5.2 \\ 5.3 \\ \hline \\ 5.4 \\ \hline \\ 5.5 \\ \hline \\ 6 \\ 6.1 \\ \hline \\ 6.2 \\ \hline \\ 6.3 \\ \hline \\ 6.4 \\ \hline \\ 6.5 \\ \hline \\ 6.6 \\ \hline \\ 6.7 \\ \hline \\ 6.8 \\ \hline \\ 6.9 \\ \hline \\ 6.1 \\ \hline \\ \\ 6.1 \\ \hline \\ \\$	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment			
$\begin{array}{c} 4.2 \\ 4.3 \\ 5 \\ 5.1 \\ 5.2 \\ 5.3 \\ 5.4 \\ 5.5 \\ \hline \\ 6.6 \\ 6.1 \\ 6.2 \\ 6.3 \\ 6.4 \\ 6.5 \\ 6.6 \\ 6.7 \\ 6.8 \\ 6.9 \\ 6.9 \\ 6.1 \\ 6.1 \\ \hline \\ 6.7 \\ 6.8 \\ 6.9 \\ 6.1 \\ 6.1 \\ \hline \\ 7 \\ 7 \end{array}$	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker, Transformers         Compensating Equipment(Reactor, CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares			
$\begin{array}{c} 4.2 \\ 4.3 \\ \hline \\ 5.5 \\ 5.1 \\ \hline \\ 5.2 \\ 5.3 \\ \hline \\ 5.4 \\ 5.5 \\ \hline \\ 6.6 \\ 6.7 \\ \hline \\ 6.8 \\ 6.9 \\ \hline \\ 6.1 \\ \hline \\ 6.7 \\ \hline \\ 6.8 \\ \hline \\ 6.9 \\ \hline \\ 6.1 \\ \hline \\ 6.1 \\ \hline \\ 7 \\ \hline \\ 8 \\ \hline \end{array}$	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment			
$\begin{array}{c} 4.2 \\ 4.3 \\ \hline \\ 55 \\ 5.1 \\ \hline \\ 5.2 \\ 5.3 \\ \hline \\ 5.5 \\ \hline \\ 6.6 \\ 6.7 \\ 6.8 \\ \hline \\ 6.9 \\ 6.1 \\ \hline \\ 6.1 \\ \hline \\ 6.7 \\ \hline \\ 6.8 \\ \hline \\ 6.9 \\ \hline \\ 6.1 \\ \hline \\ 7 \\ 7 \\ 8 \\ \hline \\ 9 \\ 9 \\ \end{array}$	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre -			
$\begin{array}{c} 4.2 \\ 4.3 \\ \hline \\ 5 \\ 5.1 \\ \hline \\ 5.2 \\ \hline \\ 5.3 \\ \hline \\ 5.5 \\ \hline \\ 6.6 \\ 6.7 \\ \hline \\ 6.6 \\ 6.7 \\ \hline \\ 6.8 \\ \hline \\ 6.9 \\ \hline \\ 6.1 \\ \hline \\ 6.1 \\ \hline \\ 6.1 \\ \hline \\ 6.1 \\ \hline \\ 6.7 \\ \hline \\ 6.8 \\ \hline \\ 6.9 \\ \hline \\ 6.1 \\ \hline \\ 6.1 \\ \hline \\ 7 \\ 7 \\ 8 \\ \hline \\ 9 \\ 9.1 \\ \hline \end{array}$	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc			
$\begin{array}{c} 4.2 \\ 4.3 \\ \hline \\ 5.1 \\ 5.2 \\ 5.3 \\ \hline \\ 5.4 \\ 5.5 \\ \hline \\ 6.6 \\ 6.1 \\ \hline \\ 6.2 \\ 6.3 \\ 6.4 \\ 6.5 \\ \hline \\ 6.6 \\ 6.5 \\ \hline \\ 6.6 \\ 6.7 \\ \hline \\ 6.8 \\ 6.9 \\ \hline \\ 6.1 \\ \hline \\ 6.1 \\ \hline \\ 7 \\ 7 \\ 8 \\ \hline \\ 8 \\ \hline \\ 9 \\ 9 \\ 9.1 \\ \hline \\ 9.2 \\ 9.3 \\ \hline \end{array}$	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants			
$\begin{array}{c} 4.2 \\ 4.3 \\ \hline \\ 5 \\ 5.1 \\ 5.2 \\ 5.3 \\ \hline \\ 5.5 \\ \hline \\ 6 \\ 6.1 \\ \hline \\ 6.2 \\ 6.3 \\ \hline \\ 6.4 \\ 6.5 \\ \hline \\ 6.6 \\ \hline \\ 6.7 \\ \hline \\ 6.8 \\ 6.9 \\ \hline \\ 6.1 \\ \hline \\ 6.1 \\ \hline \\ 6.1 \\ \hline \\ 7 \\ 7 \\ 8 \\ 8 \\ 9 \\ 9 \\ 9.1 \\ \hline \\ 9.2 \\ 9.3 \\ \hline \\ 10 \\ \hline \end{array}$	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Tools and Plants         construction Insurance         Total Construction and pre			
4.2           4.3           5           5.1           5.2           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.1           6.1           6.1           9           9.1           9.2           9.3           10           10	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Tools and Plants         construction Insurance         Total Construction and pre         Overheads         Establishment			
4.2           4.3           5           5.1           5.2           5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.7           6.8           6.9           6.1           6.1           6.7           6.8           6.9           6.1           6.1           6.1           6.1           6.1           6.1           6.2           9.3           9           9.3           10           10	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Tools and Plants         construction Insurance         Total Construction and pre         Overheads         Establishment         Audit& Accounts			
4.2           4.3           5           5.1           5.2           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.1           6.1           6.1           9           9.1           9.2           9.3           10           10	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads Establishment Audit& Accounts Contingency			
4.2           4.3           5           5.1           5.2           5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.7           6.8           6.9           6.1           6.1           6.7           6.8           6.9           6.1           6.1           6.1           6.1           6.1           6.1           6.2           9.3           9           9.3           10           10	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Tools and Plants         construction Insurance         Total Construction and pre         Overheads         Establishment         Audit& Accounts			
4.2           4.3           5           5.1           5.2           5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.1           6.7           6.8           6.9           6.1           6.1           6.1           6.1           6.1           6.1           77           8           9           9.1           9.2           9.3           100           100           100	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads Establishment Audit& Accounts Contingency Total Overheads			
4.2           4.3           5           5.1           5.2           5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.7           6.8           6.9           6.1           6.1           6.1           6.1           6.1           6.1           6.1           6.1           6.1           6.1           6.1           6.1           6.1           6.1           77           8           9           9.3           9           9.3           100           10	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads Establishment Audit& Accounts Contingency	Image: Second second		
4.2         4.3         5         5.1         5.2         5.3         5.4         6         6.1         6.2         6.3         6.4         6.5         6.6         6.7         6.8         6.9         6.1         6.7         7         8         9         9.1         9.2         9.3         10         10         10         10         11	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency         Total Overheads			
4.2         4.3         5         5.1         5.2         5.3         5.4         5.5         6         6.1         6.2         6.3         6.4         6.5         6.6         6.7         6.8         6.9         6.1         6.7         6.8         6.9         6.1         6.1         77         8         9         9.1         9.2         9.3         9.10         100         100         100         100         111         111	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency         Total Overheads         Establishment         Audit& Accounts         Contingency         Total Cost	<ul> <li></li></ul>		
4.2           4.3           5           5.1           5.2           5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.1           6.1           6.1           77           8           9           9.1           9.2           9.3           9.10           100           100           100           100           111           12           12	Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads Establishment Audit& Accounts Contingency Total Overheads Establishment Audit& Accounts Contingency Total Overheads	<ul> <li></li></ul>		
4.2           4.3           5           5.1           5.2           5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.1           6.7           6.8           6.9           6.1           6.1           6.1           6.7           7           8           9           9.1           9.2           9.3           9           9.10           100           100           100           100           100           101           111           12           12           12           12	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre         Site supervision & site admn.etc         Total Construction Insurance         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency         Total Overheads         Establishment         Audit& Accounts         Contingency         Total Cost         IDC,FC,FERV& Hedging Cost	Image: Second second	Image: Constraint of the second se	
4.2           4.3           5           5.1           5.2           5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.1           6.1           6.1           77           8           9           9.1           9.2           9.3           9.10           100           100           100           100           111           12           12	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency         Total Overheads         IDC,FC,FERV& Hedging Cost         Interest During Construction(IDC)         Foreign Exchange Rate Variation	Image: Second second	Image: Constraint of the second se	
4.2           4.3           5           5.1           5.2           5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.1           6.7           6.8           6.9           6.1           6.1           6.1           6.7           7           8           9           9.1           9.2           9.3           9           9.10           100           100           100           100           100           101           111           12           12           12           12	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre         Site supervision & site admn.etc         Total Construction Insurance         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency         Total Overheads         Establishment         Audit& Accounts         Contingency         Total Cost         IDC,FC,FERV& Hedging Cost	Image: Second second	Rs.194883000	
4.2           4.3           5           5.1           5.2           5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.1           6.7           6.8           6.9           6.1           6.1           6.1           6.7           7           8           9           9.1           9.2           9.3           9           9.10           100           100           100           100           100           101           111           12           12           12           12	Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency         Total Overheads         IDC,FC,FERV& Hedging Cost         Interest During Construction(IDC)         Foreign Exchange Rate Variation	Image: Second second	Image: Second second	

B15 4 4.1					
	Substations	Construction of 05 nos. of 1	32 KV Line Bays	in Grid Sub Statio	on of
	Preliminary works & land		-		
	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					
0.1	Structure for switchyard Total Substation Equipment	1			-
7			<u> </u>		
8	Spares Taxae and Duties				
ð	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				L
9.3	construction Insurance				
	Total Construction and pre				
10					
10	Establishment				
10					
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&				
B16	Substations	Construction of 02 nos. 132KV	Line bays each at 1	132/33KV Grid-Si	ubstation
4	Preliminary works & land				
	Preliminary works & land				
4.1					
4.1	Desgin & Engineering				
4.2	Desgin & Engineering Land				
	Desgin & Engineering Land Site preparation				
4.2 4.3	Desgin & Engineering Land Site preparation Total Preliminary works & land				
4.2 4.3 5	Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works				
4.2 4.3 5 5.1	Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building				
4.2 4.3 5 5.1 5.2	Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony				
4.2 4.3 5 5.1 5.2 5.3	Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage				
4.2 4.3 5 5.1 5.2 5.3 5.4	Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures				
4.2 4.3 5 5.1 5.2 5.3	Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works				
$ \begin{array}{r}     4.2 \\     4.3 \\     \overline{} \\     5 \\     5.1 \\     5.2 \\     \overline{} \\     5.3 \\     5.4 \\     \overline{} \\     5.5 \\   \end{array} $	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works				
$ \begin{array}{r}     4.2 \\     4.3 \\     \overline{} \\     5 \\     5.1 \\     5.2 \\     \overline{} \\     5.3 \\     5.4 \\     \overline{} \\     5.5 \\     \hline     6 \\   \end{array} $	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works				
$ \begin{array}{r}     4.2 \\     4.3 \\     5 \\     5.1 \\     5.2 \\     5.3 \\     5.4 \\     5.5 \\     \hline     6 \\     6.1 \\ \end{array} $	Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker,				
$ \begin{array}{r}     4.2 \\     4.3 \\     \hline     5 \\     5.1 \\     5.2 \\     5.3 \\     5.4 \\     5.5 \\     \hline     6 \\     6.1 \\     6.2 \\   \end{array} $	Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers				
$ \begin{array}{r} 4.2 \\ 4.3 \\ 5 \\ 5.1 \\ 5.2 \\ 5.3 \\ 5.4 \\ 5.5 \\ 6 \\ 6.1 \\ 6.2 \\ 6.3 \\ \end{array} $	Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor,				
$ \begin{array}{r} 4.2\\ 4.3\\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 5.5\\ 6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ \end{array} $	Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay&				
$ \begin{array}{c} 4.2 \\ 4.3 \\ 5 \\ 5.1 \\ 5.2 \\ 5.3 \\ 5.4 \\ 5.5 \\ 6 \\ 6.1 \\ 6.2 \\ 6.3 \\ 6.4 \\ 6.5 \\ \end{array} $	Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC				
$\begin{array}{c} 4.2 \\ 4.3 \\ 5 \\ 5.1 \\ 5.2 \\ 5.3 \\ 5.4 \\ 5.5 \\ \hline \\ 6 \\ 6.1 \\ 6.2 \\ 6.3 \\ 6.4 \\ 6.5 \\ 6.6 \\ \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker, Transformers         Compensating Equipment(Reactor, CONTROL, Relay&         PLCC         HVDC package				
$\begin{array}{c} 4.2 \\ 4.3 \\ \hline 5 \\ 5.1 \\ 5.2 \\ 5.3 \\ 5.4 \\ 5.5 \\ \hline 6 \\ 6.1 \\ 6.2 \\ 6.3 \\ 6.4 \\ 6.5 \\ 6.6 \\ 6.7 \\ \hline \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker, Transformers         Compensating Equipment(Reactor, CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators				
$\begin{array}{c} 4.2 \\ 4.3 \\ \hline 5 \\ 5.1 \\ 5.2 \\ 5.3 \\ 5.5 \\ \hline 6 \\ 6.1 \\ 6.2 \\ 6.3 \\ 6.4 \\ 6.5 \\ 6.6 \\ 6.7 \\ 6.8 \\ \hline \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker, Transformers         Compensating Equipment(Reactor, CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting				
$\begin{array}{c} 4.2\\ 4.3\\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 6.5\\ 6.6\\ 6.7\\ 6.8\\ 6.9\\ 6.9\\ \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker, Transformers         Compensating Equipment(Reactor, CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset				
$\begin{array}{c} 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ \hline \\ 5.5\\ \hline \\ 5.5\\ \hline \\ 6\\ 6.1\\ \hline \\ 6.2\\ 6.3\\ \hline \\ 6.4\\ \hline \\ 6.5\\ \hline \\ 6.6\\ \hline \\ 6.7\\ \hline \\ 6.8\\ \hline \\ 6.9\\ \hline \\ 6.1\\ \hline \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System				
$\begin{array}{c} 4.2\\ 4.3\\ 5\\ 5.1\\ 5.2\\ 5.3\\ 5.4\\ 6.5\\ 6.6\\ 6.7\\ 6.8\\ 6.9\\ 6.9\\ \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard				
$\begin{array}{c} 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ \hline \\ 5.5\\ \hline \\ 5.5\\ \hline \\ 6.6\\ 6.1\\ \hline \\ 6.2\\ \hline \\ 6.3\\ \hline \\ 6.4\\ \hline \\ 6.5\\ \hline \\ 6.6\\ \hline \\ 6.7\\ \hline \\ 6.8\\ \hline \\ 6.9\\ \hline \\ 6.1\\ \hline \\ 6.1\\ \hline \\ \hline \\ 6.1\\ \hline \\ \hline \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment				
$\begin{array}{c} 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ \hline \\ 5.5\\ \hline \\ 5.5\\ \hline \\ 6\\ 6.1\\ \hline \\ 6.2\\ \hline \\ 6.3\\ \hline \\ 6.4\\ \hline \\ 6.5\\ \hline \\ 6.6\\ \hline \\ 6.7\\ \hline \\ 6.8\\ \hline \\ 6.9\\ \hline \\ 6.1\\ \hline \\ 6.1\\ \hline \\ 7\\ \hline \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment				
$\begin{array}{c} 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ \hline \\ 5.5\\ \hline \\ 5.5\\ \hline \\ 6.6\\ 6.1\\ \hline \\ 6.2\\ \hline \\ 6.3\\ \hline \\ 6.4\\ \hline \\ 6.5\\ \hline \\ 6.6\\ \hline \\ 6.7\\ \hline \\ 6.8\\ \hline \\ 6.9\\ \hline \\ 6.1\\ \hline \\ 6.1\\ \hline \\ \hline \\ 6.1\\ \hline \\ \hline \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment				
$\begin{array}{c} 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ \hline \\ 5.5\\ \hline \\ 5.5\\ \hline \\ 6\\ 6.1\\ \hline \\ 6.2\\ \hline \\ 6.3\\ \hline \\ 6.4\\ \hline \\ 6.5\\ \hline \\ 6.6\\ \hline \\ 6.7\\ \hline \\ 6.8\\ \hline \\ 6.9\\ \hline \\ 6.1\\ \hline \\ 6.1\\ \hline \\ 7\\ \hline \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment				
$\begin{array}{c} 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ \hline \\ 5.5\\ \hline \\ 5.5\\ \hline \\ 6\\ 6.1\\ \hline \\ 6.2\\ \hline \\ 6.3\\ \hline \\ 6.4\\ \hline \\ 6.5\\ \hline \\ 6.6\\ \hline \\ 6.7\\ \hline \\ 6.8\\ \hline \\ 6.9\\ \hline \\ 6.1\\ \hline \\ 6.1\\ \hline \\ 7\\ \hline \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment				
$\begin{array}{c} 4.2 \\ 4.3 \\ \hline \\ 5.5 \\ 5.1 \\ 5.2 \\ 5.3 \\ 5.4 \\ 5.5 \\ \hline \\ 6.6 \\ 6.7 \\ 6.8 \\ 6.9 \\ 6.1 \\ 6.7 \\ 6.8 \\ 6.9 \\ 6.1 \\ 6.1 \\ \hline \\ 7 \\ 7 \\ 8 \\ \hline \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker, Transformers         Compensating Equipment(Reactor, CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares				
$\begin{array}{c c} 4.2 \\ 4.3 \\ 5 \\ 5.1 \\ 5.2 \\ 5.3 \\ 5.5 \\ 6 \\ 6.1 \\ 6.2 \\ 6.3 \\ 6.4 \\ 6.5 \\ 6.6 \\ 6.7 \\ 6.8 \\ 6.9 \\ 6.1 \\ 6.1 \\ 6.7 \\ 7 \\ 8 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9 \\ 9$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker, Transformers         Compensating Equipment(Reactor, CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -				
$\begin{array}{c} 4.2 \\ 4.3 \\ \hline \\ 5.1 \\ 5.2 \\ 5.3 \\ \hline \\ 5.4 \\ \hline \\ 6.5 \\ 6.6 \\ 6.7 \\ 6.8 \\ 6.9 \\ 6.1 \\ \hline \\ 6.5 \\ 6.6 \\ 6.7 \\ 6.8 \\ 6.9 \\ \hline \\ 6.1 \\ \hline \\ 6.1 \\ \hline \\ 7 \\ 8 \\ \hline \\ 9 \\ 9.1 \\ 9.2 \\ \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker, Transformers         Compensating Equipment(Reactor, CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Tools and Plants				
$\begin{array}{c} 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ \hline \\ 5.4\\ \hline \\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ \hline \\ 6.5\\ 6.6\\ 6.7\\ \hline \\ 6.8\\ 6.9\\ \hline \\ 6.1\\ \hline \\ 6.1\\ \hline \\ 6.1\\ \hline \\ 7\\ \hline \\ 8\\ \hline \\ 9\\ 9.1\\ \hline \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Tools and Plants         construction Insurance				
$\begin{array}{c} 4.2\\ 4.3\\ \hline \\ 5.1\\ 5.2\\ 5.3\\ \hline \\ 5.5\\ \hline \\ 5.5\\ \hline \\ 6\\ 6.1\\ \hline \\ 6.2\\ 6.3\\ \hline \\ 6.4\\ \hline \\ 6.5\\ \hline \\ 6.6\\ \hline \\ 6.7\\ \hline \\ 6.8\\ \hline \\ 6.9\\ \hline \\ 6.1\\ \hline \\ \hline \\ 6.1\\ \hline \\ 6.1\\ \hline \\ \hline \\ 7\\ \hline \\ 8\\ \hline \\ 9\\ 9.1\\ \hline \\ 9.2\\ \hline \\ 9.3\\ \hline \\ 9.2\\ \hline \\ 9.3\\ \hline \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Tools and Plants         construction Insurance         Total Construction and pre				
$\begin{array}{c} 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ \hline \\ 5.5\\ \hline \\ 5.5\\ \hline \\ 6\\ 6.1\\ \hline \\ 6.2\\ \hline \\ 6.3\\ \hline \\ 6.2\\ \hline \\ 6.3\\ \hline \\ 6.4\\ \hline \\ 6.5\\ \hline \\ 6.6\\ \hline \\ 6.7\\ \hline \\ 6.8\\ \hline \\ 6.9\\ \hline \\ 6.1\\ \hline \\ \hline \\ 6.1\\ \hline \\ \hline \\ 7\\ 7\\ \hline \\ 8\\ 8\\ \hline \\ 9\\ 9\\ 9.1\\ \hline \\ 9.2\\ \hline \\ 9.3\\ \hline \\ 10\\ \hline \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Tools and Plants         construction and pre         Overheads				
$\begin{array}{c} 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ \hline \\ 5.2\\ \hline \\ 5.4\\ \hline \\ 5.5\\ \hline \\ 6.6\\ \hline \\ 6.1\\ \hline \\ 6.2\\ \hline \\ 6.3\\ \hline \\ 6.4\\ \hline \\ 6.5\\ \hline \\ 6.6\\ \hline \\ 6.7\\ \hline \\ 6.8\\ \hline \\ 6.9\\ \hline \\ 6.1\\ \hline \\ 6.2\\ \hline \\ 6.3\\ \hline \\ 6.4\\ \hline \\ 9.2\\ \hline \\ 9.3\\ \hline \\ 9.3\\ \hline \\ 9.3\\ \hline \\ 9.1\\ \hline \\ 9.2\\ \hline \\ 9.3\\ \hline \\ 9.3\\ \hline \\ 10\\ \hline \\ 10\\ \hline \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Tools and Plants         construction Insurance         Total Construction and pre         Overheads         Establishment				
$\begin{array}{c} 4.2\\ 4.3\\ \hline \\ 5\\ 5.1\\ 5.2\\ 5.3\\ \hline \\ 5.5\\ \hline \\ 5.5\\ \hline \\ 6\\ 6.1\\ \hline \\ 6.2\\ \hline \\ 6.3\\ \hline \\ 6.2\\ \hline \\ 6.3\\ \hline \\ 6.4\\ \hline \\ 6.5\\ \hline \\ 6.6\\ \hline \\ 6.7\\ \hline \\ 6.8\\ \hline \\ 6.9\\ \hline \\ 6.1\\ \hline \\ \hline \\ 6.1\\ \hline \\ \hline \\ 7\\ 7\\ \hline \\ 8\\ 8\\ \hline \\ 9\\ 9\\ 9.1\\ \hline \\ 9.2\\ \hline \\ 9.3\\ \hline \\ 10\\ \hline \end{array}$	Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Toals Substation Equipment         Spares         Taxes and Duties         Construction and pre         Site supervision & site admn.etc         Tools and Plants         construction Insurance         Total Construction and pre         Overheads         Establishment         Audit& Accounts				

				-	
					Tender
1.1	<b>T</b> . 1.0 .	14.82.0	NIT	NT/ A	under
11	Total Cost	14.83 Cr	NIL	N/A	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&				
		Construction of 220/132/33 KV			
		GSS, Raxaul against NIT			
B17	Substations	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 5.3	Township & Colony				
5.4	Roads and Drainage Foundation for structures			-	
5.5	Misc. Civil Works				
3.3	Total Civil Works			+	1
6	Substation Equipments				
6.1	Substation Equipments Switchgear (CT,PT,Circuit Breaker,			1	1
6.2	Transformers			1	1
	Compensating Equipment(Reactor,		1	1	1
6.4	CONTROL, Relay&				1
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				
0					
9 9.1	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.5	construction Insurance Total Construction and pre			-	
10	Overheads				
10					
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)				1
12	Foreign Exchange Rate Variation				-
12					
	Hedging Cost				
	Hedging Cost Total of IDC , FC, FERV& Hedging				
	Total of IDC , FC, FERV& Hedging				
13	Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV&				
13	Total of IDC , FC, FERV& Hedging				
13	Total of IDC , FC, FERV& Hedging				
13	Total of IDC , FC, FERV& Hedging	Construction of (2x500+2x160)			
13	Total of IDC , FC, FERV& Hedging	MVA 400/220/132 KV GIS Grid			
13	Total of IDC , FC, FERV& Hedging	MVA 400/220/132 KV GIS Grid Sub-Station			
13	Total of IDC , FC, FERV& Hedging	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under			
13	Total of IDC , FC, FERV& Hedging	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis against			
	Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV&	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under			
B18	Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV&	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis against			
B18	Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis against			
B18 4	Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV&	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis against			
B18 4 4.1	Total of IDC , FC, FERV& Hedging         Capital Cost inci. IDC,FC,FERV&         Substations         Preliminary works & land         Desgin & Engineering	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis against			
B18 4 4.1 4.2	Total of IDC , FC, FERV& Hedging         Capital Cost inci. IDC,FC,FERV&         Substations         Preliminary works & land         Desgin & Engineering         Land	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis against			
B18 4 4.1 4.2 4.3 5	Total of IDC , FC, FERV& Hedging         Capital Cost inci. IDC,FC,FERV&         Substations         Preliminary works & land         Desgin & Engineering         Land         Site preparation	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis against			
B18 4 4.1 4.2 4.3	Total of IDC , FC, FERV& Hedging         Capital Cost inci. IDC,FC,FERV&         Capital Cost inci. IDC,FC,FERV&         Substations         Preliminary works & land         Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis against			
B18 4 4.1 4.2 4.3 5 5 5.1 5.2	Total of IDC , FC, FERV& Hedging         Capital Cost inci. IDC,FC,FERV&         Capital Cost inci. IDC,FC,FERV&         Substations         Preliminary works & land         Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis against			
B18 4 4.1 4.2 4.3 5 5.1 5.2 5.3	Total of IDC , FC, FERV& Hedging         Capital Cost inci. IDC,FC,FERV&         Capital Cost inci. IDC,FC,FERV&         Substations         Preliminary works & land         Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Control Room & Office Building         Control Room & Office Building         Township & Colony         Roads and Drainage	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis against			
B18 4 4.1 4.2 4.3 5 5.1 5.1 5.2 5.3 5.4	Total of IDC , FC, FERV& Hedging         Capital Cost inci. IDC,FC,FERV&         Capital Cost inci. IDC,FC,FERV&         Substations         Preliminary works & land         Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis against			
B18 4 4.1 4.2 4.3 5 5.1 5.2 5.3	Total of IDC , FC, FERV& Hedging         Capital Cost inci. IDC,FC,FERV&         Capital Cost inci. IDC,FC,FERV&         Substations         Preliminary works & land         Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis against			
B18 4 4.1 4.2 4.3 5 5.1 5.2 5.3 5.4 5.5	Total of IDC , FC, FERV& Hedging         Capital Cost inci. IDC,FC,FERV&         Capital Cost inci. IDC,FC,FERV&         Substations         Preliminary works & land         Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis against			
B18 4 4.1 4.2 4.3 5 5.1 5.2 5.3 5.3 5.5 5.5 6	Total of IDC , FC, FERV& Hedging         Capital Cost inci. IDC,FC,FERV&         Capital Cost inci. IDC,FC,FERV&         Substations         Preliminary works & land         Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis against			
B18 4 4.1 4.2 4.3 5 5.1 5.2 5.3 5.4 5.5 6 6 6.1	Total of IDC , FC, FERV& Hedging         Capital Cost inci. IDC,FC,FERV&         Capital Cost inci. IDC,FC,FERV&         Substations         Preliminary works & land         Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT, PT, Circuit Breaker,	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis against			
B18 4 4.1 4.2 4.3 5 5.1 5.2 5.3 5.4 5.5 6 6 6.1 6.2	Total of IDC , FC, FERV& Hedging         Capital Cost inci. IDC,FC,FERV&         Capital Cost inci. IDC,FC,FERV&         Substations         Preliminary works & land         Desgin & Engineering         Land         Site preparation         Total Preliminary works & land         Civil Works         Control Room & Office Building         Township & Colony         Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works	MVA 400/220/132 KV GIS Grid Sub-Station Bakhtiyarpur with SAS under turnkey basis against			

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	250000001			
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&				
B19	Substations	Construction of 132/33KV	GSS Benipur (2x1	0 MVA) against l	NIT
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5					
5.1	Civil Works				
	Civil Works Control Room & Office Building				
5.2					
	Control Room & Office Building				
5.2	Control Room & Office Building Township & Colony				
5.2 5.3	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works				
5.2 5.3 5.4 5.5	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works				
5.2 5.3 5.4 5.5 6	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments				
5.2 5.3 5.4 5.5 6 6.1	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker,				
5.2 5.3 5.4 5.5 6 6 6.1 6.2	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers				
5.2 5.3 5.4 5.5 6 6.1 6.2 6.3	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor,				
5.2 5.3 5.4 5.5 6 6.1 6.2 6.3 6.4	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay&				
5.2 5.3 5.4 5.5 6 6 6.1 6.2 6.3 6.4 6.5	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC				
5.2 5.3 5.4 5.5 6 6 6.1 6.2 6.3 6.4 6.5 6.6	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package				
5.2 5.3 5.4 5.5 6 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators				
5.2 5.3 5.4 5.5 6 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting				
5.2 5.3 5.4 5.5 6 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor Lighting Emergency D.Gset				
5.2 $5.3$ $5.4$ $5.5$ $6$ $6.1$ $6.2$ $6.3$ $6.4$ $6.5$ $6.6$ $6.7$ $6.8$ $6.9$ $6.1$	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor Lighting Emergency D.Gset Grounding System				
5.2 5.3 5.4 5.5 6 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard				
5.2 $5.3$ $5.4$ $5.5$ $6$ $6.1$ $6.2$ $6.4$ $6.5$ $6.6$ $6.7$ $6.8$ $6.9$ $6.1$ $6.1$ $6.1$	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment				
5.2 5.3 5.4 5.5 6 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 7	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares				
5.2 $5.3$ $5.4$ $5.5$ $6$ $6.1$ $6.2$ $6.4$ $6.5$ $6.6$ $6.7$ $6.8$ $6.9$ $6.1$ $6.1$ $6.1$	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment				
5.2 5.3 5.4 5.5 6 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 7 7 8	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties				
5.2 5.3 5.4 5.5 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 6.1 7 7 8 8	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre -				
5.2 5.3 5.4 5.5 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 6.1 7 7 8 8 9 9 9.1	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc				
5.2 5.3 5.4 5.5 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 6.1 7 7 8 8 9 9 9.1 9.2	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants				
5.2 5.3 5.4 5.5 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 6.1 7 7 8 8 9 9 9.1	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance				
5.2 5.3 5.4 5.5 6 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 6.1 7 7 8 8 9 9 9.1 9.2 9.3	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre				
5.2 5.3 5.4 5.5 6 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 7 7 8 8 9 9.1 9.2 9.3 9.1 10	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads				
5.2 5.3 5.4 5.5 6 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 6.1 7 7 8 8 9 9 9.1 9.2 9.2 9.3 10 10	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads Establishment				
5.2 5.3 5.4 5.5 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 6.1 6.1 7 7 8 8 9 9.1 9.2 9.2 9.3 9.3 10 10	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads Establishment Audit& Accounts				
5.2 5.3 5.4 5.5 6 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 6.1 7 7 8 8 9 9 9.1 9.2 9.2 9.3 10 10	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads Establishment Audit& Accounts Contingency				
5.2 5.3 5.4 5.5 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 6.1 6.1 7 7 8 8 9 9.1 9.2 9.2 9.3 9.3 10 10	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads Establishment Audit& Accounts				
5.2 5.3 5.4 5.5 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 6.1 6.1 7 7 8 8 9 9.1 9.2 9.3 9.1 0 10 10 10	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads Establishment Audit& Accounts Contingency Total Overheads				
5.2 5.3 5.4 5.5 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 6.1 6.1 7 7 8 8 9 9.1 9.2 9.2 9.3 9.3 10 10	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads Establishment Audit& Accounts Contingency	Image: state	Lange Control		
5.2         5.3         5.4         5.5         6         6.1         6.2         6.3         6.4         6.5         6.6         6.7         6.8         6.9         6.1         6.1         6.1         6.1         6.1         6.1         6.1         9         9.1         9.2         9.3         10         10         10         11	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads Establishment Audit& Accounts Contingency Total Overheads	Image: state	18,61,56,400		
5.2 5.3 5.4 5.5 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 6.1 6.1 7 7 8 8 9 9.1 9.2 9.3 9.1 0 10 10	Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance Total Construction and pre Overheads Establishment Audit& Accounts Contingency Total Overheads		18,61,56,400		

				•	
12	Foreign Exchange Rate Variation				
12	Hedging Cost Total of IDC, FC, FERV& Hedging				
	Total of IDC, FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
B20	Substations	Construction of 132/33	KV Grid Sub-stati	on Shahpur Pato	ri
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			-	
6	Total Civil Works Substation Equipments				
6.1	Substation Equipments Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8 6.9	Outdoor lighting Emergency D.Gset		+		
6.1	Grounding System		<u> </u>		-
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 Contingency			-	
10	Total Overheads				
	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 Hedging Cost				
12	Total of IDC , FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
B21	Substations	2 x160+2x50 MVA,220/13	2/33KV GSS Sama	stipur(New)NIT	No
4.1	Preliminary works & land Desgin & Engineering				
4.1	Land				
4.3	Site preparation		1		
	Total Preliminary works & land				
5	Civil Works		<u>_</u>		
5.1	Control Room & Office Building				
5.2 5.3	Township & Colony Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works		1		
	Total Civil Works		<u> </u>	<u> </u>	
6	Substation Equipments				
6.1	Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3 6.4	Compensating Equipment(Reactor, CONTROL, Relay&		1		
6.5	PLCC		1		
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				
	Construction and pre -				
9 9.1	Site supervision & site admn.etc				

	1		-	-	
9.2	Tools and Plants				
9.3	construction Insurance Total Construction and pre				
10	Overheads		-		-
10	Establishment				1
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)		+	ł	-
12	Foreign Exchange Rate Variation				
12	Hedging Cost		-		1
	Total of IDC, FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
				L	
B22	Substations	Construction of 02 nos. 132	KV line bays at 132	/33KV Grid Sub	station
4.1	Preliminary works & land				
4.1	Desgin & Engineering Land	<u> </u>	+	1	+
4.2	Site preparation		+	<u> </u>	
+.5	Total Preliminary works & land		1	1	1
5	Civil Works	<u> </u>	1		1
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		+		
6	Total Civil Works Substation Equipments	<u> </u>	+	l	
6.1	Substation Equipments Switchgear (CT,PT,Circuit Breaker,		+	1	-
6.2	Transformers		1	1	1
	Compensating Equipment(Reactor,	<u> </u>	1		1
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 6.1	Grounding System				
0.1	Structure for switchyard Total Substation Equipment	<u> </u>	+	1	+
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				
10	Total Construction and pre				
10	Overheads				
10	Establishment Audit& Accounts	<del></del>	+	l	
10	Contingency		+	1	+
10	Total Overheads		1	1	1
		<u> </u>	1		1
		2 99 56 350	2 51 50 000	27.07.252	Quantity
11	Total Cost	3,88,56,350	3,51,50,098	37,06,252	variation
				ļ	
12	IDC,FC,FERV& Hedging Cost		+		_
12	Interest During Construction(IDC)		+	l	
12	Foreign Exchange Rate Variation Hedging Cost	<del></del>	+	l	
12	Total of IDC, FC, FERV& Hedging		+		
	Total of the , re, releved floughing		1	1	1
13	Capital Cost inci. IDC,FC,FERV&	<u> </u>	1		1
B23	Substations	Construction of 08 nos. 132 KV	/ Line bays under T	rans.Circle, Mu	zaffarpur
4	Preliminary works & land		<u> </u>	ļ	<u> </u>
4.1	Desgin & Engineering		+		
4.2	Land Site preparation	<del></del>	+	l	
4.5	Total Preliminary works & land	<u> </u>	+	ł	+
5	Civil Works		+		
5.1	Control Room & Office Building		1	ł	1
5.2	Township & Colony		1		1
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				<b></b>
6.1	Switchgear (CT,PT,Circuit Breaker,			l	
	The second second second second second second second second second second second second second second second se				
6.2	Transformers Compensating Equipment(Reactor,		-		+

6.4	CONTROL, Relay&			1	
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				
	Turies and Duries				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
10	Total Construction and pre Overheads				
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	12,56,89,284	12,56,89,284	0	
$\square$					
12	IDC,FC,FERV& Hedging Cost				-
12	Interest During Construction(IDC)				+
12	Foreign Exchange Rate Variation Hedging Cost				+
12	Total of IDC, FC, FERV& Hedging				
			1		1
13	Capital Cost inci. IDC,FC,FERV&				L
B22	Substations	Construction of (2x50 MV	A) 132/33 KV GSS, 1	Palasi (District-A	(raria)
4	Preliminary works & land				1
4.1	Desgin & Engineering				
4.2	Land		-		
4.3	Site preparation				+
5	Total Preliminary works & land				+
5.1	Civil Works Control Room & Office Building				+
	Township & Colony				+
5.2					1
5.2					
5.2 5.3 5.4	Roads and Drainage Foundation for structures				
5.3	Roads and Drainage				
5.3 5.4	Roads and Drainage Foundation for structures				
5.3 5.4 5.5 6	Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments				
5.3 5.4 5.5 6 6.1	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,				
5.3 5.4 5.5 6 6.1 6.2	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers				
5.3 5.4 5.5 6 6.1 6.2 6.3	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,				
5.3 5.4 5.5 6 6.1 6.2 6.3 6.4	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&				
$ \begin{array}{r} 5.3 \\ 5.4 \\ 5.5 \\ \hline 6 \\ 6.1 \\ 6.2 \\ 6.3 \\ 6.4 \\ 6.5 \\ \end{array} $	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC				
$ \begin{array}{r} 5.3\\ 5.4\\ 5.5\\ \hline 6\\ 6.1\\ \hline 6.2\\ \hline 6.3\\ \hline 6.4\\ \hline 6.5\\ \hline 6.6\\ \end{array} $	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package				
$5.3 \\ 5.4 \\ 5.5 \\ - \\ 6 \\ 6.1 \\ 6.2 \\ 6.3 \\ 6.4 \\ 6.5 \\ 6.6 \\ 6.7 \\ - \\ 6.7 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ $	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker, Transformers         Compensating Equipment(Reactor, CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators				
$ \begin{array}{r} 5.3\\ 5.4\\ 5.5\\ \hline 6\\ 6.1\\ \hline 6.2\\ \hline 6.3\\ \hline 6.4\\ \hline 6.5\\ \hline 6.6\\ \end{array} $	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package				
$5.3 \\ 5.4 \\ 5.5 \\ 6 \\ 6.1 \\ 6.2 \\ 6.3 \\ 6.4 \\ 6.5 \\ 6.6 \\ 6.7 \\ 6.8 \\ 0.7 \\ 6.8 \\ 0.7 \\ 0.8 \\ $	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker, Transformers         Compensating Equipment(Reactor, CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting				
$ \begin{array}{r} 5.3\\ 5.4\\ 5.5\\ \hline 6\\ 6.1\\ \hline 6.2\\ \hline 6.3\\ \hline 6.4\\ \hline 6.5\\ \hline 6.6\\ \hline 6.7\\ \hline 6.8\\ \hline 6.9\\ \hline \end{array} $	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard				
5.3 5.4 5.5 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System				
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           7	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares				
5.3 5.4 5.5 6 6.1 6.2 6.3 6.4 6.5 6.5 6.6 6.7 6.8 6.9 6.1 6.1	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment				
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           7           8	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties				
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.7           6.8           6.9           6.1           6.1           9	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -				
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.7           6.8           6.9           6.1           7           8           9           9.1	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc				
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.7           7           8           9           9.1           9.2	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Tools and Plants				
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.7           6.8           6.9           6.1           7           8           9           9.1	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Tools and Plants         construction Insurance				
$\begin{array}{c} 5.3\\ 5.4\\ 5.5\\ \hline \\ 6\\ 6.1\\ 6.2\\ 6.3\\ 6.4\\ 6.5\\ 6.6\\ 6.7\\ 6.8\\ 6.9\\ 6.1\\ 6.1\\ \hline \\ 6.1\\ \hline \\ 7\\ 7\\ 8\\ \hline \\ 9\\ 9\\ 9.1\\ 9.2\\ \end{array}$	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Tools and Plants				
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           7           8           9           9.1           9.2           9.3	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Tools and Plants         construction Insurance         Total Construction and pre				
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           77           8           9           9.1           9.2           9.3           100           10	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Tools and Plants         construction fusurance         Total Construction and pre				
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.1           9           9.1           9.2           9.3           10           10	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Total Construction Insurance         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency				
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           77           8           9           9.1           9.2           9.3           100           10	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Tools and Plants         construction Insurance         Total Construction and pre         Overheads         Establishment         Audit& Accounts				
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.7           6.8           6.9           6.1           6.1           77           8           9           9.1           9.2           9.3           10           10           10           10	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Tools and Plants         construction Insurance         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency         Total Overheads				
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           77           8           9           9.1           9.2           9.3           100           10	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Total Construction Insurance         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency	29.8 Cr			
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           7           8           9           9.1           9.2           9.3           10           10           10           11	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Tools and Plants         construction Insurance         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency         Total Overheads				
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           7           8           9           9.1           9.2           9.3           10           10           10           10           11           12	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency         Total Cost         Total Cost				
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.7           6.8           6.9           6.1           6.1           77           8           9           9.1           9.2           9.3           10           10           10           10           10           11           12           12	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency         Total Cost         Total Cost         IDC,FC,FERV& Hedging Cost         Interest During Construction(IDC)		NIL		Image: Second second
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.1           7           8           9           9.1           9.2           9.3           10           10           10           10           10           11           12           12           12           12	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency         Total Overheads         Establishment         Audit& Accounts         Contingency         Total Cost         Total Cost         Total Cost         Foreign Exchange Rate Variation				Image: Constraint of the second sec
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.7           6.8           6.9           6.1           6.1           77           8           9           9.1           9.2           9.3           10           10           10           10           10           11           12           12	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency         Total Overheads         IDC,FC,FERV& Hedging Cost         Interest During Construction(IDC)         Foreign Exchange Rate Variation				Image: Constraint of the second sec
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.1           7           8           9           9.1           9.2           9.3           10           10           10           10           10           11           12           12           12           12	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency         Total Overheads         Establishment         Audit& Accounts         Contingency         Total Cost         Total Cost         Total Cost         Foreign Exchange Rate Variation			NA	Image: NA       Image: NA       Image: NA
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.1           7           8           9           9.1           9.2           9.3           10           10           10           10           10           11           12           12           12           12	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Total Construction Insurance         Overheads         Establishment         Audit& Accounts         Contingency         Total Overheads         IDC,FC,FERV& Hedging Cost         Interest During Construction(IDC)         Foreign Exchange Rate Variation				Image: NA       Image: NA
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           7           8           9           9.1           9.2           9.3           10           10           10           10           10           10           11           12           12           12           12           12           13	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Total Construction Insurance         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency         Total Overheads         Total Cost         Total Cost         Total Cost         Total Cost         Total Cost         Total Cost         Contingency         Total Cost         Total Cost         Total Cost         IDC,FC,FERV& Hedging Cost	2000 Cr			Image: NA       Image: NA       Image: NA
5.3 5.4 5.5 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 6.1 6.1 7 7 8 9 9.1 9.2 9.3 9.1 9.2 9.3 10 10 10 10 10 10 10 10 10 10	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency         Total Overheads         Establishment         Audit& Accounts         Contingency         Total Cost         IDC,FC,FERV& Hedging Cost         Interest During Construction(IDC)         Foreign Exchange Rate Variation         Hedging Cost         Capital Cost inci. IDC,FC,FERV&	Construction of 2 x1			
5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           6.7           6.8           6.9           6.1           6.1           7           8           9           9.1           92.2           9.3           10           10           10           10           10           10           11           12           12           12           12           12           13 <b>B222</b>	Roads and Drainage         Foundation for structures         Mise. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency         Total Overheads         Interest During Construction(IDC)         Foreign Exchange Rate Variation         Hedging Cost         Total of IDC , FC, FERV& Hedging         Capital Cost inci. IDC, FC, FERV&         Substations         Preliminary works & land				
5.3         5.4         5.5         6         6.1         6.2         6.3         6.4         6.5         6.6         6.7         6.8         6.9         6.1         7         8         9         9.1         9.2         9.3         10         10         10         10         10         10         10         11         12         12         12         12         12         13	Roads and Drainage         Foundation for structures         Misc. Civil Works         Total Civil Works         Substation Equipments         Switchgear (CT,PT,Circuit Breaker,         Transformers         Compensating Equipment(Reactor,         CONTROL, Relay&         PLCC         HVDC package         Bus Bars /conductors/Insulators         Outdoor lighting         Emergency D.Gset         Grounding System         Structure for switchyard         Total Substation Equipment         Spares         Taxes and Duties         Construction and pre -         Site supervision & site admn.etc         Total Construction and pre         Overheads         Establishment         Audit& Accounts         Contingency         Total Overheads         Establishment         Audit& Accounts         Contingency         Total Cost         IDC,FC,FERV& Hedging Cost         Interest During Construction(IDC)         Foreign Exchange Rate Variation         Hedging Cost         Capital Cost inci. IDC,FC,FERV&				

4.3	Site preparation				
	Total Preliminary works & land				
5.1	Civil Works				
5.2	Control Room & Office Building 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 6.4	Compensating Equipment(Reactor, 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				
7	Total Substation Equipment				
7	Spares Taxes and Duties				
0	Taxes and Duries				
9	Construction and pre -		1		
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10 10	Establishment Audit& Accounts		<u> </u>		
10	Contingency				
10	Total Overheads		1		
11		73.00	97.40		Earth mat, GI Flats , Lighting Fixtures
11	Total Cost	73.96	87.49	13.53	etc.
1					
12	IDC.FC.FERV& Hedging Cost				
12 12	IDC,FC,FERV& Hedging Cost Interest During Construction(IDC)				
12 12	Interest During Construction(IDC) Foreign Exchange Rate Variation				
12	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost				
12 12	Interest During Construction(IDC) Foreign Exchange Rate Variation				
12 12	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging				
12 12 12	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost	Construction of	220 /132 /33 kV M	otipur GSS	
12 12 12 13 <b>B23</b> 4	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land	Construction of	220 /132 /33 kV M	otipur GSS	
12 12 12 13 <b>B23</b> 4 4.1	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering	Construction of	220 /132 /33 kV M	otipur GSS	
12 12 12 13 <b>B23</b> 4.1 4.2	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land	Construction of	220 /132 /33 kV Me	otipur GSS	
12 12 12 13 <b>B23</b> 4 4.1	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation	Construction of	220 /132 /33 kV M	otipur GSS	
12 12 12 13 <b>B23</b> 4 4.1 4.2 4.3	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land	Construction of	220 /132 /33 kV M	otipur GSS	
12 12 12 13 <b>B23</b> 4.1 4.2	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation	Construction of	220 /132 /33 kV Me	otipur GSS	
12 12 12 13 <b>B23</b> 4 4.1 4.2 4.3 5	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works	Construction of	220 /132 /33 kV M	otipur GSS	
12           12           12           12           13 <b>B23</b> 4           4.1           4.2           4.3           5           5.1           5.2           5.3	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage	Construction of	220 /132 /33 kV M	otipur GSS	
12           12           12           12           13 <b>B23</b> 4           4.1           4.2           4.3           5           5.1           5.2           5.3           5.4	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures	Construction of	220 /132 /33 kV M	otipur GSS	
12           12           12           12           13 <b>B23</b> 4           4.1           4.2           4.3           5           5.1           5.2           5.3	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works	Construction of	220 /132 /33 kV M	otipur GSS	
12           12           12           12           13 <b>B23</b> 4           4.1           4.2           4.3           5           5.1           5.2           5.3           5.4           5.5	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works	Construction of	220 /132 /33 kV M	otipur GSS	
12           12           12           12           13 <b>B23</b> 4           4.1           4.2           4.3           5           5.1           5.2           5.3           5.4	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works	Construction of	220 /132 /33 kV Me	otipur GSS	
$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers	Construction of Construction of	220 /132 /33 kV Me	otipur GSS	
$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor,	Construction of Construction of	220 /132 /33 kV Me	otipur GSS	
$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers COMTROL, Relay&	Construction of Construction of	220 /132 /33 kV Me	otipur GSS	
$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC	Construction of Construction of	220 /132 /33 kV Me	otipur GSS	
$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package	Construction of Construction of	220 /132 /33 kV Me	otipur GSS	
$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators	Construction of Construction of	220 /132 /33 kV Me	otipur GSS	
$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package	Construction of Construction of	220 /132 /33 kV Me		
$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System	Construction of Construction of	220 /132 /33 kV Me	otipur GSS	
$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard	Construction of Construction of	220 /132 /33 kV M		
$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Mise. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment	Construction of Construction of	220 /132 /33 kV M		
12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           4           4.1           4.2           4.3           5           5.1           5.2           5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           7	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment	Construction of Construction of	220 /132 /33 kV M		
$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Mise. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment	Construction of Construction o	220 /132 /33 kV M		
12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           13           B23           4           4.1           4.2           4.3           5.5           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           7	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment	Construction of Construction o	220 /132 /33 kV Me		
$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre - Site supervision & site admn.etc	Construction of Construction o	220 /132 /33 kV M		
$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Capital Cost inci. IDC,FC,FERV& Capital Cost inci. IDC,FC,FERV& Capital Cost inci. IDC,FC,FERV& Capital Cost inci. IDC,FC,FERV& Capital Cost inci. IDC,FC,FERV& Capital Cost inci. IDC,FC,FERV& Capital Cost inci. IDC,FC,FERV& Capital Cost inci. IDC,FC,FERV& Capital Cost inci. IDC,FC,FERV& Capital Cost inci. IDC,FC,FERV& Capital Cost inci. IDC,FC,FERV& Capital Cost inci. IDC,FC,FERV& Capital Cost inci. IDC,FC,FERV& Capital Cost inci. IDC,FC,FERV& Capital Cost inci. IDC,FC,FERV& Control Room & Office Building Control Room & Office Building Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Control Room & Office Building Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre Construction and pre Site supervision & site admn.etc Tools and Plants		220 /132 /33 kV M		
$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Mise. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Circuit System Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Supares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance		220 /132 /33 kV M		
$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Structure for switchyard Construction and pre Construction and pre		220 /132 /33 kV Me		
$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Mise. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Circuit System Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Supares Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance	Construction of Construction o	220 /132 /33 kV M		
$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties Construction and pre Overheads		220 /132 /33 kV Ma		

10	Contingenzy				
10	Contingency Total Overheads				
					Addition
					al scope
					of work,
					Lattice
11	Total Cost	69.54	75.79	6.25	structre , CVT etc.
1	Total Cost	09.51	15.17	0.23	C V I Cle.
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&				
B24	Substations	Construction of 2 x160+2x	50 MVA .220/132	/33KV GSS Lauk	ahi
4	Preliminary works & land				
4.1	Desgin & Engineering				
4.2	Land				
4.3	Site preparation				
5	Total Preliminary works & land				
5.1	Civil Works Control Room & Office Building				
5.1	Township & Colony				
5.3	Roads and Drainage	1		1	
5.4	Foundation for structures				L
5.5	Misc. Civil Works				
	Total Civil Works				
6	Substation Equipments				
6.1 6.2	Switchgear (CT,PT,Circuit Breaker, Transformers				
	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&	1		1	
6.5	PLCC				
6.6	HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1 6.1	Grounding System Structure for switchyard			<u> </u>	
0.1	Total Substation Equipment				
7	Spares	1		1	
8	Taxes and Duties				
9	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2 9.3	Tools and Plants construction Insurance				
9.3	Total Construction and pre				
10	Overheads	1		l	-
10	Establishment				1
10	Audit& Accounts				
10	Contingency				
$\vdash$	Total Overheads				
$\vdash$					L - 41
					Lattice Structure
					Structure 40 mm
					MS rod,
					132 KV
					XLPE
					Cable
					and its .
11		(0.21	(7.02	(71	accessori
11	Total Cost	60.31	67.02	6./1	es etc.
12	IDC,FC,FERV& Hedging Cost	1			
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
$\square$	Total of IDC, FC, FERV& Hedging				
10					
13 B25	Capital Cost inci. IDC,FC,FERV&	Construction of (2x160MVA+3		22 KV CEC T	
<b>B25</b> 4	Substations Preliminary works & land	CONSTRUCTION OF (2X100IVLVA+3	AJUIVI V AJ 220/132		pur(with
4.1	Desgin & Engineering	1			
4.2	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5	Civil Works				
5.1 5.2	Control Room & Office Building				
	Township & Colony	+			
	Doads and Drainses				
5.2 5.3 5.4	Roads and Drainage Foundation for structures				

				n	1
6	Total Civil Works Substation Equipments		+		
6.1	Substation Equipments Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
-	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay&				
6.5 6.6	PLCC HVDC package				
6.7	Bus Bars /conductors/Insulators				
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1 6.1	Grounding System				
0.1	Structure for switchyard Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
9 9.1	Construction and pre - Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance				
	Total Construction and pre				
10 10	Overheads Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
				<u> </u>	
11	Total Cost	07 5	5 Yet to be awarded		
11		92.3			
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-1	Substations	Construction of 3X50 MV	A, 132/33kV Grid S	ub-Station, Nathn	agar
4.1	Preliminary works & land Desgin & Engineering				
4.1	Land				
4.3	Site preparation				
	Total Preliminary works & land				
5.1	Civil Works				
5.2	Control Room & Office Building Township & Colony				
5.3	Roads and Drainage				
5.4	Foundation for structures				
5.5	Misc. Civil Works				
6	Total Civil Works Substation Equipments				
6.1	Substation Equipments Switchgear (CT,PT,Circuit Breaker,				
6.2	Transformers				
6.3	Compensating Equipment(Reactor,				
6.4	CONTROL, Relay& PLCC		+		
6.5 6.6	PLCC HVDC package		+		
6.7	Bus Bars /conductors/Insulators		1	1	
6.8	Outdoor lighting				
6.9	Emergency D.Gset				
6.1 6.1	Grounding System Structure for switchyard				
0.1	Total Substation Equipment				
7	Spares				
8	Taxes and Duties				
			-		
9 9.1	Construction and pre - Site supervision & site admn.etc		+	<u> </u>	
9.1	Tools and Plants		1		
9.3	construction Insurance				
	Total Construction and pre				
10	Overheads				
10	Establishment Audit& Accounts		+		
10	Contingency		1	<u> </u>	
	Total Overheads				
1.1	Total Cost	57 02 (with Enter T)	57.03 (with Entry	_	
11	Total Cost	57.03 (with Entry Tax)	Tax)	0	
12	IDC,FC,FERV& Hedging Cost		1		
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost Total of IDC, FC, FERV& Hedging		+	<u> </u>	
<u> </u>			1		
				1	

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4.3       Site preparation       Image: Site preparation       Image: Site preparation         5       Civil Works       Image: Site preparation       Image: Site preparation         5.1       Control Room & Office Building       Image: Site preparation       Image: Site preparation         5.2       Township & Colony       Image: Site preparation       Image: Site preparation       Image: Site preparation         5.3       Roads and Drainage       Image: Site preparation       Image: Site preparation       Image: Site preparation         5.4       Foundation for structures       Image: Site preparation       Image: Site preparation       Image: Site preparation         6.1       Substation Equipments       Image: Site preparation       Image: Site preparation       Image: Site preparation         6.4       CONTROL, Relay&       Image: Site preparation       Image: Site preparation       Image: Site preparation         6.5       PLCC       Image: Site preparation	12 12 12 13 <b>B.</b> 4	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land	Construction of line bay at	(i)GSS Kishangan	(New) aginst NI	Γ (ii)
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5.5       Misc. Civil Works       Image: Civil Works       Image: Civil Works         6       Substation Equipments       Image: Civil Works       Image: Civil Works         6       Substation Equipments       Image: Civil Works       Image: Civil Works         6.1       Switchgear (CT,PT,Circuit Breaker,       Image: Civil Works       Image: Civil Works         6.2       Transformers       Image: Civil Works       Image: Civil Works       Image: Civil Works         6.2       Transformers       Image: Civil Works       Image: Civil Works       Image: Civil Works       Image: Civil Works         6.2       Transformers       Image: Civil Works       I	12           12           12           12           13 <b>B.</b> 4           4.1           4.2           4.3           5           5.1	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building	Construction of line bay at	(i)GSS Kishangan	(New) aginst NI	Γ (ii)
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6Substation EquipmentsImage: construction equipment is a construction equipment	12           12           12           12           13 <b>B.</b> 4           4.1           4.2           4.3           5           5.1           5.2           5.3           5.4	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures	Construction of line bay at	(i)GSS Kishangan	i (New) aginst NI	Γ (ii)
6.1       Switchgear (CT,PT,Circuit Breaker,       Image: Compensating Equipment (Reactor,       Image: Compensating E	12           12           12           12           13 <b>B.</b> 4           4.1           4.2           4.3           5           5.1           5.2           5.3           5.4	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works	Construction of line bay at	(i)GSS Kishangan	i (New) aginst NI	Γ (ii)
6.2       Transformers       Image: construction and pre         6.3       Compensating Equipment(Reactor,       Image: construction and pre         6.4       CONTROL, Relay&       Image: construction and pre         6.5       PLCC       Image: construction and pre         6.6       HVDC package       Image: construction and pre         6.7       Bus Bars /construction and pre       Image: construction and pre         6.8       Outdoor lighting       Image: construction and pre         6.9       Emergency D.Gset       Image: construction and pre         6.1       Grounding System       Image: construction and pre         7       Spares       Image: construction and pre         9.3       construction and pre       Image: construction and pre	12           12           12           12           13 <b>B.</b> 4           4.1           4.2           4.3           5           5.1           5.3           5.4           5.5	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works	Construction of line bay at	(i)GSS Kishangan 	i (New) aginst NI	Γ (ii)
6.3Compensating Equipment(Reactor, CONTROL, Relay&Image: construction and pre6.4CONTROL, Relay&Image: construction and pre6.5PLCCImage: construction and pre6.6HVDC packageImage: construction and pre6.7Bus Bars /conductors/InsulatorsImage: construction and pre6.8Outdoor lightingImage: construction and pre6.9Emergency D.GsetImage: construction and pre6.1Grounding SystemImage: construction and pre7SparesImage: construction and pre9Construction and preImage: construction and pre9.3Construction and preImage: construction and pre9.3Construction and preImage: construction and pre9.3Construction and preImage: construction and pre9Total Construction and preImage: construction and pre9.3Construction and preImage: construction and pre9.3Construction and preImage: construction and pre9.4Construction and preImage: construction and pre9.3Construction and preImage: construction and pre9.4Construction and preImage: construction and pre9.5Construction and preImage: construction and pre9.6Construction and preImage: construction and pre9.7Construction and preImage: construction and pre9.8Construction and preImage: construction and pre9.9Construction and preImage: construction and	12           12           12           13 <b>B.</b> 4           4.1           4.2           4.3           5           5.1           5.2           5.3           5.4           5.5           6	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Control Room & Office Suilding	Construction of line bay at	(i)GSS Kishangan 	(New) aginst NI	Γ (ii)
6.4       CONTROL, Relay&       Image: Control of the second seco	12           12           12           12           13 <b>B.</b> 4           4.1           4.2           4.3           5           5.1           5.2           5.3           5.45           6           6.1	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker,	Construction of line bay at	(i)GSS Kishangan	(New) aginst NI	Γ (ii)
6.5PLCCImage: Construction and pre6.6HVDC packageImage: Construction Insurance6.7Bus Bars /conductors/InsulatorsImage: Construction and pre6.8Outdoor lightingImage: Construction and pre6.9Emergency D.GsetImage: Construction and pre6.1Grounding SystemImage: Construction and pre6.1Structure for switchyardImage: Construction and pre7SparesImage: Construction and pre9Construction and preImage: Construction and pre9.3Construction and preImage: Construction and pre9.3Construction and preImage: Construction and pre9.3Construction and preImage: Construction and pre9.4Construction and preImage: Construction and pre9.3Construction and preImage: Construction and pre9.4Construction and preImage: Construction and pre9.5Construction and preImage: Construction and pre9.6Construction and preImage: Construction and pre9.7Construction and preImage: Construction and pre9.8Construction and preImage: Construction and pre9.9Construction and preImage: Construction and pre9.1Construction and preImage: Construction and pre9.3Construction and preImage: Construction and pre10Construction and preImage: Construction and pre10Construction and preImage: Construction and pre11 <td>12           12           12           12           13           <b>B.</b>           4.1           4.2           4.3           5           5.1           5.2           5.3           5.4           5.5           6           6.1           6.2</td> <td>Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV&amp; Hedging Capital Cost inci. IDC,FC,FERV&amp; Substations Preliminary works &amp; land Desgin &amp; Engineering Land Site preparation Total Preliminary works &amp; land Civil Works Control Room &amp; Office Building Township &amp; Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers</td> <td>Construction of line bay at Construction of line bay at</td> <td>(i)GSS Kishangan</td> <td>(New) aginst NI</td> <td>Γ (ii)</td>	12           12           12           12           13 <b>B.</b> 4.1           4.2           4.3           5           5.1           5.2           5.3           5.4           5.5           6           6.1           6.2	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers	Construction of line bay at Construction of line bay at	(i)GSS Kishangan	(New) aginst NI	Γ (ii)
6.7Bus Bars / conductors/InsulatorsImage: final system of the s	12           12           12           12           13 <b>B.</b> 44.1           4.2           4.3           5           5.1           5.2           5.3           5.4           5.5           6           6.1           6.2           6.3	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor,	Construction of line bay at Construction of line bay at	(i)GSS Kishangan 	(New) aginst NI	Γ (ii)
6.8       Outdoor lighting       Image: construction and pre       Image: construction and pre       Image: construction and pre         6.8       Construction and pre       Image: construction and pre       Image: construction and pre       Image: construction and pre         6.1       Site supervision and pre       Image: construction and pre       Image: construction and pre       Image: construction and pre         6.1       Site supervision and pre       Image: construction and pre       Image: construction and pre       Image: construction and pre         7       Site supervision & site admn.etc       Image: construction and pre       Image: construction and pre       Image: construction and pre         9.3       Construction and pre       Image: construction and pre       Image: construction and pre       Image: construction and pre	12           12           12           12           13 <b>B.</b> 4           4.1           4.2           4.3           5           5.1           5.2           5.3           5.4           5.5           6           6.1           6.3           6.4	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC	Construction of line bay at Construction of line bay at	(i)GSS Kishangan	(New) aginst NI	Γ (ii)
6.9       Emergency D.Gset       Image: Construction and pre-       Image: Construction Insurance       Image: Construction and pre-       Image: Construction Insurance       Image: Construction and pre-       Image: Construction Insurance       Image: Construction and pre-       Image: Construction and pre-       Image: Construction Insurance       Image: Construction and pre-       Image: Construction Insurance       Image: Construction and pre-       Image: Construction Insurance       Image: Construction and pre-       Image: Construction and pre-       Image: Construction Insurance       Image: Construction and pre-       Image: Construction Insurance       Image: Construction and pre-       Image: Construction Insurance       Ima	12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           13           4           4.1           4.2           4.3           5           5.1           5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package	Construction of line bay at Construction of line bay at	(i)GSS Kishangan	(New) aginst NI	Γ (ii)
6.1       Grounding System       Image: construction for switchyard       Image: conswitchyard       Image: construction for swit	12           12           12           12           13 <b>B.</b> 4           4.1           4.2           4.3           5           5.12           5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators	Construction of line bay at Construction of line bay at	(i)GSS Kishangan	(New) aginst NI	
6.1       Structure for switchyard       Image: construction of switchyard       Image: construction of switchyard         7       Total Substation Equipment       Image: construction of switchyard       Image: construction of switchyard         8       Taxes and Duties       Image: construction of switchyard       Image: construction of switchyard       Image: construction of switchyard         9       Construction and pre -       Image: construction of switchyard       Image: construction of switchyard       Image: construction of switchyard         9.3       construction Insurance       Image: construction of switchyard switchyard       Image: construction of switchyard switchyar	12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           13           6           6.1           6.2           6.3           6.45           6.66           6.7           6.8	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting	Construction of line bay at Construction of line bay at	(i)GSS Kishangan	i (New) aginst NI'	
Total Substation Equipment     Image: Construction and pre-     Image: Construction and pre-       9     Construction and pre -     Image: Construction and pre-       9.1     Site supervision & site admn.etc     Image: Construction Insurance       9.3     Construction and pre     Image: Construction and pre-       9.3     Construction Insurance     Image: Construction and pre-       1     Total Construction and pre-     Image: Construction and pre-	12           12           12           12           13 <b>B.</b> 4           4.1           4.2           4.3           5           5.1           5.2           5.3           5.4           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset	Construction of line bay at Construction of line bay at Construction of line bay at	(i)GSS Kishangan	i (New) aginst NI'	
7       Spares       Image: Construction and pre-       Image: Construction and pre-       Image: Construction and pre-         9       Construction & site admn.etc       Image: Construction Insurance       Image: Construction Insurance         9.3       Construction and pre-       Image: Construction Insurance       Image: Construction and pre-         1       Total Construction and pre-       Image: Construction and pre-       Image: Construction and pre-	12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           13           4           4.1           4.2           4.3           5.5           5.1           5.3           5.4.5           6.6           6.7           6.8           6.9           6.1	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System	Construction of line bay at Construction of line bay at Construction of line bay at	(i)GSS Kishangan	i (New) aginst NI'	
8     Taxes and Duties     Image: Construction and pre-     Image: Construction and pre-     Image: Construction and pre-       9.1     Site supervision & site admn.etc     Image: Construction and Plants     Image: Construction Insurance       9.3     Construction Insurance     Image: Construction and pre-     Image: Construction Insurance       1     Total Construction and pre-     Image: Construction and pre-     Image: Construction and pre-	12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           13           4           4.1           4.2           4.3           5.5           5.1           5.3           5.4.5           6.6           6.7           6.8           6.9           6.1	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works & Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard	Construction of line bay at Construction of line bay at Construction of line bay at	(i)GSS Kishangan	i (New) aginst NI'	
9.1     Site supervision & site admn.etc     Image: Construction and Plants       9.2     Tools and Plants     Image: Construction Insurance       9.3     Construction Insurance     Image: Construction and pre	12           12           12           12           12           13 <b>B.</b> 4           4.1           4.2           4.3           5           5.1           5.2           5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works & land Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment	Construction of line bay at Construction of line bay at	(i)GSS Kishangan	(New) aginst NI'	
9.1     Site supervision & site admn.etc     Image: Construction and Plants       9.2     Tools and Plants     Image: Construction Insurance       9.3     Construction Insurance     Image: Construction and pre	12           12           12           12           12           13 <b>B.</b> 4           4.1           4.2           4.3           5.5           5.1           5.2           5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           7	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares	Construction of line bay at Construction of line bay at	(i)GSS Kishangan	i (New) aginst NI'	
9.2     Tools and Plants     Image: Construction Insurance       9.3     construction Insurance     Image: Construction and pre       Image: Construction and pre     Image: Construction and pre	12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           13           4           4.1           4.2           4.3           5           5.1           5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           7           8	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties	Construction of line bay at Construction of line bay at	(i)GSS Kishangan	(New) aginst NI'	
9.3     construction Insurance       Total Construction and pre	12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           13           4           4.1           4.2           4.3           5           5.1           5.3           5.4           5.5           6           6.1           6.2           6.3           6.4           6.5           6.6           6.7           6.8           6.9           6.1           6.1           7           8           9	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC, FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment Structure for switchyard Total Substation Equipment	Construction of line bay at Construction of line bay at Construction of line bay at	(i)GSS Kishangan	(New) aginst NI'	
Total Construction and pre	$\begin{array}{c} 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\$	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Total Civil Works Total Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties	Construction of line bay at Construction of line bay at Construction of line bay at	(i)GSS Kishangan	(New) aginst NI'	
	12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           13           6           6.1           6.5           6.6           6.7           6.8           6.9           6.1           6.1           7           8           9           9.1           9.2	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Spares Taxes and Duties	Construction of line bay at Construction of line bay at	(i)GSS Kishangan	(New) aginst NI'	
	12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           13           6           6.1           6.5           6.6           6.7           6.8           6.9           6.1           6.1           7           8           9           9.1           9.2	Interest During Construction(IDC) Foreign Exchange Rate Variation Hedging Cost Total of IDC , FC, FERV& Hedging Capital Cost inci. IDC,FC,FERV& Capital Cost inci. IDC,FC,FERV& Substations Preliminary works & land Desgin & Engineering Land Site preparation Total Preliminary works & land Civil Works Control Room & Office Building Township & Colony Roads and Drainage Foundation for structures Misc. Civil Works Substation For structures Misc. Civil Works Substation Equipments Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting Emergency D.Gset Grounding System Structure for switchyard Total Substation Equipment Systes Taxes and Duties Construction and pre - Site supervision & site admn.etc Tools and Plants construction Insurance	Construction of line bay at Construction of line bay at	(i)GSS Kishangan	(New) aginst NI'	

		1	1		
10	Establishment				
10	Audit& Accounts				
10	Contingency				
	Total Overheads				
11	Total Cost	10.77Cr.	NIL	N/A	N/A
11	Total Cost	10.77CI.	NIL	IN/A	IN/A
12	IDC,FC,FERV& Hedging Cost				
12	Interest During Construction(IDC)				
12	Foreign Exchange Rate Variation				
12	Hedging Cost				
12	Total of IDC, FC, FERV& Hedging				
13	Capital Cost inci. IDC,FC,FERV&				
B.	Substations	Construction of 03 Nos of 132	/33 KV Transform	er Bays in Bihars	harif &
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 5.4	Roads and Drainage		<u> </u>		
5.4	Foundation for structures Misc. Civil Works	+	1		
5.5	Total Civil Works		1		
6	Substation Equipments	1	1		
6.1	Substation Equipments Switchgear (CT,PT,Circuit Breaker,	1	1		
6.2	Transformers		1		
	Compensating Equipment(Reactor,		1		
6.4	CONTROL, Relay&		1		
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		ļ		
	Total Substation Equipment				
7	Spares	-			
8	Taxes and Duties		<u> </u>		
		+			
9	Construction and pre -				
9.1 9.2	Site supervision & site admn.etc		<u> </u>		
9.2	Tools and Plants construction Insurance	+	1		
9.5	Total Construction and pre	1	1		
10			1		
10	Establishment	1	1		
10	Audit& Accounts		1		
10	Contingency	1	1		
	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		<u> </u>		
13 P	Capital Cost inci. IDC,FC,FERV&	Comet at address area		Da C	V. 1 0
<b>B.</b>	Substations	Construction of 04 Nos of 132	35 KV Transform	er Bays in Saran,	Kosi &
4.1	Preliminary works & land				
4.1	Desgin & Engineering		<u> </u>		
4.2	Land Site preparation	+	1		
4.3	Total Preliminary works & land		1		
5	Civil Works		1		
5.1	Control Room & Office Building	1	1		
5.2	Township & Colony		1		
5.3	Roads and Drainage	1	1		
5.4	Foundation for structures				
5.5	Misc. Civil Works				
	Total Civil Works				
6					
	Substation Equipments			I	
6.1	Switchgear (CT,PT,Circuit Breaker,			I	
6.2	Switchgear (CT,PT,Circuit Breaker, Transformers				
6.2 6.3	Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor,				
6.2 6.3 6.4	Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay&				
6.2 6.3 6.4 6.5	Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC				
6.2 6.3 6.4 6.5 6.6	Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package				
6.2 6.3 6.4 6.5 6.6 6.7	Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators				
6.2 6.3 6.4 6.5 6.6 6.7 6.8	Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators Outdoor lighting				
6.2 6.3 6.4 6.5 6.6 6.7	Switchgear (CT,PT,Circuit Breaker, Transformers Compensating Equipment(Reactor, CONTROL, Relay& PLCC HVDC package Bus Bars /conductors/Insulators				

(1					
6.1	Structure for switchyard				
7	Total Substation Equipment				
	Spares				
8	Taxes and Duties				
9	Construction and an				
-	Construction and pre -				
9.1	Site supervision & site admn.etc				
9.2	Tools and Plants				
9.3	construction Insurance		-		
10	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			ļ	
	Total of IDC , FC, FERV& Hedging			ļ	
				1	
13	Capital Cost inci. IDC,FC,FERV&				
B.	Substations	Construction of 05 Nos	of 132/33 KV Trans	former Bays in G	aya
4	Preliminary works & land			1	
4.1	Desgin & Engineering				
4.2	Land			1	
4.3	Site preparation			1	
	Total Preliminary works & land				
5	Civil Works				
5.1	Control Room & Office Building				
5.2	Township & Colony				
5.3	Roads and Drainage			ļ	
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&				
A-4	GSS	Construction of 220/132/33 KV	2X160+3x50MVA) GS	S at Garaul (Dist. Va	ishali) on

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Analysis Property			1000 100 100 100 100 100 100 100 100 10		Construction         Construction         Construction         Construction           Annual         Construction         Construction         Construction           Annual         Construction         Construction         Construction           Annual         Construction         Construction         Construction
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**#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.

### (1) Statement of Capital Works in Progress

# Form No: F5

							Rs. Crores	
		Particulars	Previou	Current Year	ye	Ensuing ars (Projectio	n)	
		T ar cionars	Approved in MYT/RE	Actual	(i. e. RE)	FY (n+1)	FY (n+2)	FY (n+3)
А	а	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						
В	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						
С	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	а	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) Cap	ital Work-In-Progress (CWIP)		((Rs	. Crores))						
S.N	Particulars	Previo	ous year (A	Actuals)	Curi	ent year	(RE)	Ensuing year (s) (Projections)		
		Loan	Grant	Equity	Loan	Grant	Equity	Loan	Grant	Equity
1	Opening CWIP	109.47	116.71	2888.65						
2	New Investment	413.99	50.71	649.31	Regula	of calcula	ation of			
3	Less Capitalization(a+b)	19.46		1236.22	Nor		an , Equit lation is u		-	ibed
	a) CWIP Capitalization					icgu		inder proj	51000	
	b) New Investment capitalization									
4	Closing CWIP (1+2-3)	504	167.42	2301.74						

# Normative Parameters Considered for Tariff Computations

Form No: F6

			Previou	s Year	Current Year	year	Ensuing s (Project	ion)
	Particulars		Approved in MYT/RE	Actual	(i. e. RE)	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	%						

# (a) Reconciliation of Gross Fixed Assets(GFA) admitted with Gross Fixed Assets(GFA) of Financial Account

Form No: F7

	Assets(GFA) of Fina	ancial Accour	nt			Rs. Crores	5
		Previo	us Year	Current	уе	Ensuing ars (Project	tion)
	Particulars	Approved in MYT/RE	Actual	Year (i. e. RE)	FY (n+1)	FY (n+2)	FY (n+3)
А	Gross Fixed Assets ( as at begining of the year):						
	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.						
	4. Admitted GFA(1+2-3)	]					
В	Addition/ adjustment to Gross Fixed Assets (During the year):			the purpose of prescribed re			
	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.						
С	Gross Fixed Assets (as at end of the year) Admitted by the commisson( 4+5+6-7)						

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

			GFA at the	beginning of	f the year			Addition	to GFA durir	ng the year		Adjustmen	t to GFA o sold/disc			sets		GFA at the	end of th	ie year	
S.N	Particulars(i.e Assets Group)	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		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)										-						-	-	-	-	-
	Total	-	1,166.07	45.00	2,809.76	4,020.83	-	-	29.00	1,362.30	1,391.30	-	-	-	-	-	-	1,166.07	74.00	4,172.06	5,412.13

-		Previous				Ensuing	
S.N	Particulars	Approved in MYT/RE	Actual	Current Year (RE)		years	
1	Opening Gross Fixed Assets	5026.7	4994.31	6,385.61	9144.31	10407.16	12397.61
а	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
с	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
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	C
3(i)	IDC, FC, FERV & Hedging cost	32.94	5.57	75.74	0	0	C
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	(
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.

Working for Equity

2017-18

Form No: 7

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

			Accur	mulated				Der	preciation	n			Accumu	lated				А	ccumula	ted	
S.N	Particulars(i.e Assets Group)	deprecia	ation at the	beginniı	ng of the y	year	cł	narges durin	g the yea	ar (2017-18	)	depreciation adjustment on account of depreciation at the end of the assets sold/discarded etc				nd of the ye	ar				
		Consumer Contribution	By grants	Loan	Equity	Total	Consumer Contributio n	By grants	Loan	Equity	Total	Consumer Contributio n	By grants	Loan	Equity	Total	Consumer Contributio n	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
	Total		67.14	2.376	89.534	159.05		67.14	3.91	165.75	236.80						-	134.28	6.28	255.29	395.85

Form No: 7

(d) State	ement of Assets Not in Use			Fo	orm No: F7				
	NOT A	APPLICABLE		Rs. Crores					
	Financial Year*								
Sl. No.	Date of Acquisition/Installation	Historical Cost/Cost of Acquisition	Date of withdrawal operations	Accumulated Depreciation on date of withdrawal	Written down value on date of withdrawal				
		N	IL						
*Note:- I	Information to be provided	for Previous Yea	ar, Current Yea	r & Ensuing Cont	trol Period				

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

			Previous Ye	ear	Curre	nt Year	Ensuing	Year/years	Ensuing Y	/ear/years	Ensuing Year/years	
	Particulars	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	Additio ns	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
А	Total (1+2)	1401.47	220.36	1621.83	0.00	1621.83	0.00	1621.83	0.00	1621.83	0.00	1621.83
formi	ng part of Depreciable GFA											
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
В	Total (3+4)	1345.43	0.00	1345.43	0.00	1345.43	0.00	1345.43	0.00	1345.43	0.00	1345.43
rming	g part of non-Depreciable GFA											
5	User contributions Towards Cost Of Capital Assets			0.00								
6	Grant Towards Cost Of Capital Assets											
С	Total (5+6)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ns un-	utilized (A-B-C)											ļ
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
С	Total (7+8)	56.04	220.36	276.40	0.00	276.40	0.00	276.40	0.00	276.40	0.00	276.40
D	Amount utilized for CWIP out of "C" above											
Е	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 accompained.

e

Form No: F8

		Previous	Current	E	nsuing Yea	rs
Particulars		year	year (RE)	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		Ī	Ī			
Net Normative Loan		566.28	1373.74	3688.58	4450.11	4557.66

<u>340.55</u> <u>225.73</u> **496.67 52.15** 

536.52 270.94 28.449 56.335

ADB Loan Addition in 2018-19

807.46 2314.84 761.53 107.55

<u>1217.6</u> **608.81 63.925** <u>722.4</u> **361.2 37.926** 

<u>(a) Det</u>	<u>tails of Loans for the year</u>	2018-19	2018-19									
S.N	Particulars	Purpose of loan	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid*				
	1	2	3	4	5	6	7	8				
		Capital										
1	State Govt	Investment	566.28	10.50	270.94	0	837.22	0				
		Capital										
2	Bank Loan	Investment	0	10.5	536.52	0	536.52	0				

#### 1373.74

<u>(b) De</u>	tails of Loans for the year	2019-20		Form No: F9				
S.N	Particulars	Purpose of loan	Opening balance	Rate of Interest	Addition during	Repayment during the	Closing balance	Amount of interest paid*
	1	2	3	4	5	6	7	8
1	State Govt	Capital Investment	837.22	10.50	0.00	0	837.22	0
2	Bank	Capital Investment	536.52	10.5	2314.84	0	2851.36	

3688.58

<u>(c) De</u>	<u>tails of Loans for the year</u>	<u>2020-21</u>						Form No: F9
S.N	Particulars	Purpose of loan	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid*
	1	2	3	4	5	6	7	8
1	State Govt	Capital Investment	837.22	10.50	0.00	0	837.22	0
2	Bank	Capital Investment	2851.36	10.5	761.53	0	3612.89	

4450.11

(d) De	tails of Loans for the year	2021-22						Form No: F9
S.N	Particulars	Purpose of loan	Opening balance	Rate of Interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid*
	1	2	3	4	5	6	7	8
1	State Govt	Capital Investment	837.22	10.50	0.00	0	837.22	0
2	Bank	Capital Investment	3612.89	10.5	107.55	0	3720.44	

4557.66

#### \*The amount of penal interest, if any, to be shown separately. (b) Further Details in case of Foreign Loans

S.N	Particulars		Date	Amount (Foreign Currency)	Exchange Rate	Amount in Rs. Crore
	Name of Currency					
	Loan drawal					
	Scheduled Principal Repayment					
	Actual Principal Repayment					
	Scheduled Interest payment					
	Actual Interest payment					
	Period of hedging					
	Cost of hedging					

Note:Information to be supplied separately for the previous year (actuals), current year(RE)and ensuing years

(c) Information Regarding Restructuring of Outstanding Loans During the Year

S.N	Source of loan	Amount of original loan	Old rate of interest	Amount already restructured	Revised rate of interest	Amount now being restructured	New rate of interest
1	2	3	4	5	6	7	8

(d) Domestic loans, bonds and financial leasing

#### Form No: F9

		_										Rs. C	Crores
Sl. No.	Particulars	Opening Balance at the beginning of the year d			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
A	LONG-TERM												
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
	Sub Total (A)	533.92	0.00	106.91	640.83	32.36	0.00	0.00	164.03	0.00		566.28	270.94
в	SHORT-TERM												
1													
2													
3													
4					0								
	Sub Total (A)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
	Total (A+B)	533.92	0.00	106.91	640.83	32.36	0.00	0.00	164.03	0.00		566.28	270.94

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

Form No: F9

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

		Previous	Current	E	nsuing Yea	rs
Particulars		year	year (RE)	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

Details	of Foreign Equity											Rs. Crores	
		Previous Year Cu				Current Year (i. e. RE)			Ensuing years (Projection)				
S.No.	Particulars	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
	Currency1 <sup>1</sup>						Not AppliC	ABLE					
	Total										(	í	

<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

Details of Equity

Details	of Indian Equity		-			Rs.	Crores				
	Particulars	Previous Year		ious Year Current Year (i. e. RE)		Ensuing years (Projection)		Ensuing years (Projection)		Ensuing years (Projection)	
S.No.		Date	Amount	Date	Amount	Date	Amount	Date	Amount	Date	Amount
1	Infusion		541.21		536.59		252.57		398.09		319.27
2											
3											
Total											

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	Retrurn 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	Total Return on Equity	181.05	275.99	353.96	418.25	489.12

Inte	rest and Finance Charges(Rs. Cror	<u>es)</u>		]	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						
		Construction of New					
6	Commercial Banks	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
-	Total	CIOD, DATE CO DITIC	11.27	101.85	265.77	427.28	
	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

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

#### Interest (IDC) Capitalized

				Inte	rest capitalized	
S.N.	Name of scheme /Project	Source of loan	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						

Lease de	tails(Rs. Cr	ores)				I	Form No: F12
S.N	Name of	Asset	S	Leased	Lease	Primary Period	Secondary
5.1	Lesser	Descriptions	Gross Amount	on	Rentals	ended / ending by	period ending by
1	2	3	4	5	6	7	8
Note: Sta			Not Ar	oplicable			

# Lease details(Rs. Crores)

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

# **Operations & Maintenance Cost**

# Form No: F13

S1.No	Particulars	Previous Year		Current Year	Rs. Crores Ensuing years (Projection)					
	Farticulars	Approved in MYT/RE	Actual	(i. e. RE)	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 4	Administrative and General Expenses Holding Expenses	18.45 5.15	26.09 10.29	35.87 10.70	37.30 11.13	38.79 11.57	40.34 12.03			
	Less :									
5	Expenses Capitalized	0.00	-	-	-	-				
	Net O&M Expenses	174.42	209.81	349.16	425.83	465.27	523.21			

Nar	ne of Transmission Licensee						e
<u>(a)</u> ]	Employee Expenses				Form No:F14		
					Rs. Crores		
S.N	Particulars	Previous Yea	ar	Current Year(RE)	Ensuing Year 2019-20	Ensuing Year 2020- 21	Ensuing Year 2021- 22
		Approved in MYT/RE	Actual				
1	Salaries & Allowances						
(i)	Existing Employees	102.36	109.81	111.53	116.09	120.72	125.54
	New Employees	0					
(ii)	Total	102.36	109.81	111.53	116.09	120.72	125.54
2	Contribution to Terminal Benefits (Accrual Basis)		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
Net							

Note:

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

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

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

Parameter	FY 2015-16	FY 2016-17	FY 2017-18
Average Annual CPI	126	130.9	136.5
Index (Mar 31)			
Average Annual WPI	107.7	113.2	116.3
Index (Mar 31)			
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.

Form No: F14

### (c) Employee Strength

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

Revised

l

(d) Employees Productivity Parameters

Form No: F14

Revised

(in Crore)

S.N	Particulars			Current		Ensuing	
		Prev	ious year	Year (R.E)		years	
		Approvedin					
		MYT/RE	(Actuals)	2018-19	2019-20	2020-21	2021-22
	1 2	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
	Total capacity of Substations						
	3 (MVA)		18900	21400	22170	25710	27390
	Transmission line length in						
	4 ckt/km		14137.764	16023.54	16999.54	17645.54	17645.54
	Energy Received at STU-						
	5 CTU interface (Units)		26760458352	32185478396	33263878128	37143325306	41439660769
	Employees per MU of						
	6 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
	Employees cost in paise/						
	8 KWH(7/5)		5.25925222	4.441444003	4.473020236	4.165755185	3.882753792

R&M Expenses

## Form No: F15

е

						Rs. C	rores
		Dreview	Current Year		Ensuing years (Projection)		
		Previous	fear	(i. e. RE)	ye	ars (Projecti	on)
	Particulars	*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
2	Densir 9 Maintenance Evenence	48.46	22.00	150.64	229.61	260.19	200.04
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 Extimate(RE) as the case may be shall be given.

		Previous	Year	Current Year (i. e. RE)	yea	Ensuing ars (Projection	on)
	Particulars	*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

#### Administration and General Expenses

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

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

#### Form No: F16

### Short Term Open Access Consumers

### Form No: F17

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

#### Name of Transmission Licensee Details of Non-tariff Income

#### Form No: F18 **Rs.** Crores Ensuing years (Projection) Previous Year Current Year (i. FY (n+1) FY (n+2) FY (n+3) No Particulars Approved in MYT/RE Actual e. RE) Profits derrived from disposal of assets 1 8.24 2 Rents 0.24 Income from Investments other than Contingency reserves 3 4 Interest Income 13.90 Interest on Advances to Suppliers / Contractors 5 Delayed Payment surcharge 6 7 Meter Rent Miscellaneous Receipts from consumers 8 9 Interest on loans and Advances to Staff Income/Fee/Collection against staff welfare 10 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 Total 41.09 26.74 28.08 29.48 30.95 32.50

#### Working Capital Interest

# Form No: F19

	Rs. Crores						
					Y	Ensuing /ears (Projection	)
		Previo	us Year	Current Veer (i			
	Particulars	Approved in MYT/RE	Actual	Current Year (i. e. RE)	FY (n+1)	FY (n+2)	FY (n+3)
	Receivables equivalent to two (2) month of transmission charges calculated on target availability						
1	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
	Maintenance spares@ 1% of Opening GFA with 6% Esclation (Up to FY 17-18) from 18-19 Onwards @15% of o&m Exp for						
3	One Month	53.28	52.94	67.69	5.32	5.82	6.54
	Total Working Capital	177.34	179.94	295.82	355.12	497.14	643.11
	Interest Rate		12.60%	9.95%	9.95%	9.95%	9.95%
	Interest on Working Capital	20.67	22.67	29.43	35.33	49.47	63.9

#### Investments in Non business related activities

#### Form No: F20

					Rs. C	rores	
		Balance at the	Further	Investments			
		beginning of	Investments	realised during	Balance at the		
SI.No.	Description of investment	the year	during the year	the year	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)	Ensuin	g 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
п	Assets of Licensed business utilized in other business	А	0	0	0	0
	Total assets of other business (including the assets utilized of the Licensed Business)	С	0	0	0	0
	Allocation of Revenue to Licensed Business decided by the Commission	х	0	0	0	0
	Due to Licensed Business (to be deducted from					
ш	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

	-						crores
					Ensuing years (Projection)		
SI.No.	Particulars	Previo	Previous Year oved in MYT/RE Actual		FV (n + 1)	FY (= + 2)	
51.NO.	Particulars	Approved in Wif1/RE	Actual	e. RE)	FY (n+1)	FY (n+2)	FY (n+3)
1	Interest & Finance charges Capitalised	32.94	5.57	75.74			
2	Other expenses capitalised:						
	a. Employee expenses	0	0				
	b. R&M Expenses	0	0		It will be provid	led as per actual	basis in relevan
	c. A&G Expenses	0	0			years.	
	d. Depreciation	0	0				
	e. Others, if any	0	0			-	
	Total of 2	0	0	0	0	0	0
	Grand Total	32.94	5.57	75.74	0	0	0

# Net Prior Period Expenses / Income

Form No: F22

-			Rs. Crores
SI.No.	Particulars	Previous Year	Current year (RE)
Α	Income relating to previous years:		
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)		
	Sub-Total A		
В	Expenditure relating to previous years		NU
1	Employee Cost		NIL
2	Depreciation		
3	Interest and Finance Charges		
4	Admn. Expenses		
5	Withdrawal of Revenue Demand		
6	Material Related		
7	Others (please specify)		
	Sub-Total B		
	Net prior period Credit/(Charges) : A-B		

# Extraordinary Items(Rs. Crores)

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

S.N	Particulars	Amount
1	2	3
1	Fixed Assets	
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)	Not applicable
	(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
А	Amount from State Govt.			
	i) Purpose for which grant received			
	(a)			
	(b)			
	ii) Targeted categories for subsidy			
	(a)			
	(b)			
В	Amount from Central Govt.			
	i) Received under PSDF Scheme	37.36		
	(a)			
	(b)			
С	Amount from Consumer			
	i) Received under Deposit work	183.00		

## Name of Transmission Licensee

Allocation statement of Expenses of SLDC

	Not Applicable for BSPTCL	(SLDC is subm	nitted the peti	tion seperate	ly)				Rs. Crores
			Previous year	I		Current Year		Ensuing Years	
	Particulars	Total Expenses of STU	Allocated %	SLDC Share	Total Expenses of STU	Allocated %	Total Expenses of STU	Allocated %	SLDC Share
	Expenditure								
а	O&M Expenses								
i	R&M Expense								
ii	Employee Expenses								
iii	A&G Expense								
	Total O&M expenses ( i+ii+iii)								
b	Depreciation								
с	Interest on Loan								
f	Return on Equity								
g	Others, please specify								
	Total Expenditure								

Form No: F24

## BIHAR GAZETTE (EXTRA) 17TH JULY 2018

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

## Form No. P1 (Revised)

Iransi	mission Losses (For Transmission Licensee)			
S.No.	Details	Previous Year	Current Year	Ensuing Years
В	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	
_		Previous Year	Current Year	Ensuing Years
С	Losses calculation at 132KV	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 -As recieved from Energy Accounting by SBPDCL	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 fr meter reading is showing less than loss % submitted by DISCOM in Energy Accoun meters is going on in BSPTCL GSS. It is to say that, actual Energy loss can be calc replacement of all defective emergy meters by new ABT energy meters which is LOI with Secure meters.	inting(shown below). ulated accurately one	Replacement of d ce BSPTCL complet	efective energy es the
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 - As recieved from Energy Accounting by DISCOMs	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	
	Transmission loss in (Transco) system (%) (D3/D1) x100			

Signature of Petitioner

	ransmission Licensee : BSPTCL				E a mar No	
	livered by Transmission license / Bulk consumers at interface p		ion		Form No	<b>5 P2</b>
Voltage			icensee / Bulk	Consumer		Total Energy
Level	Name of Sub-Station		NBPDCL (MUs)		(MUs)	Delivered (MUs
		North Bihar	Railway		Railway	•
220 KV	N/A	N/A	N/A	N/A	N/A	N/
132 KV	132KV KHAGARIA	0	2 2110			2.24
132 KV	220KV MADHEPURA	0				2.21
	132KV KATAIYA	375.74976				375.749
	132KV SHEETALPUR	0				6.5
	132KV VAISHALI	0				6.89
	132KV CHAPRA	0	7.344351			7.3443
	220KV GOPALGANJ	0.4084	0			0.40
	132KV SIWAN	0	6.57765			6.577
	132KV HAZIPUR	0	4.415614			4.4156
	132KV RAXAUL	201.501	0			201.5
	132KV RAMNAGAR	63.217681	0			63.2176
	132KV MOTIHARI	0.723803	0			0.7238
	132KV KATIHAR	0				4.49
	132KV SAMASTIPUR 132KV DALSINGHSARAI	0				6.22
	132KV ARA	0	10.272	0	10.809733	10.2 10.8097
	132KV ARA 132KV AURANGABAD			58.08815	10.809733	58.088
	132KV AONANGABAD 132KV BANJARI			1.8836	0	1.88
	132KV DUMRAON			0	11.8458	11.84
	132KV HATHIDAH			0	10.743849	10.7438
	132KV JAMUI			0	20.90328	20.903
	132KV JEHANABAD			0	11.540844	11.5408
	132KV LAKHISARAI			0	15.762134	15.7621
	132KV RAFIGANJ			0.106798	16.3537	16.4604
	132KV RAJGIR			1.7235	0	1.72
	132KV SHERGHATI			0.12905	0	0.129
	132KV SONENAGAR			1.89888	11.093546	12.9924
	220KV BODHGAYA			0	12.24217	12.242
	220KV FATUHA 220KV KHAGAUL			0	13.94172	13.941
	220KV KHAGAOL 220KV PUSOULI			0	13.966217 36.763523	13.9662 36.7635
				0	30.703323	30.7033
33 KV	132KV ARARIA	24.1636	0			24.16
<b>10 I</b> II	132KV ARERAJ	33.84265				33.842
	132KV BAISI	4.615				4.6
	132KV BALIA	25.1555				25.15
	132KV BANMANKHI	36.082	0			36.0
	132KV BARSOI	49.1043	0			49.10
	132KV BELSAND	21.525	0			21.5
	132KV BENIPATTI	37.6385	0			37.63
	132KV BETTIAH	123.65914				123.659
	132KV CHAKIYA	23.8452				23.84
	132KV CHAPRA	116.653				116.6
	132KV DALSINGHSARAI	66.513078				66.5130
	132KV DARBHANGA	94.60625				94.606
	132KV DHAKA 132KV DHAMDAHA	80.9713168				80.97131
	132KV DHANHA (THAKRAHA)	-				1 /7
	132KV EKMA	43.72012				1.67 43.720
	132KV FORBISGANJ	129.953921				129.9539
	132KV FORBISGARD 132KV GANGAWARA	125.142556				125.1425
	132KV HATHUA	43.9952	_			43.99
	132KV HAZIPUR	196.356342				196.3563
	132KV JAINAGAR	52.469367				52.4693
	132KV JANDAHA	102.1209				102.12
	132KV KATAIYA	72.479438	0			72.4794
	132KV KATIHAR	112.3957	0			112.39
	132KV KHAGARIA	111.12477	0			111.124
	132KV KISHANGANJ	71.97402	0			71.974
	132KV KUSHESHWARSTHAN	45.678118	0			45.6781
	132KV MADHUBANI	59.902102	0			59.9021

r	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 132KV PANDAUL	12.197 94.637819	0			12.197 94.637819
	132KV PANDAOL 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
L	132KV SITAMARHI	129.35994	0			129.35994
L	132KV SIWAN	184.84111	0			184.84111
L	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 132KV UDAKISHANGANJ	10.527 65.918904	0			10.527 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	
	132KV BARH 132KV BARIPAHARI			102.52875 201.0976	0	102.52875 201.0976
	132KV BELAGANJ			41.544867	0	41.544867
	132KV BELAGANJ 132KV BIHTA			260.6532	0	260.6532
	132KV BITTA 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
ļ	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
<u> </u>	132KV JAKKANPUR 132KV JAMALPUR			303.886016 114.41165	0 9.7353	303.886016 124.14695
	132KV JAMALPUR 132KV JAMUI			114.41165	9.7353	124.14695
	132KV JAMOT 132KV JEHANABAD			103.181967	0	103.181967
	132KV KAHALGAON			99.67169	0	99.67169
	132KV KARAMNASA			58.08165	12.920998	71.002648
ŀ	132KV KARBIGHAIA			184.235	1.005	185.24
	132KV KATRA			253.132607	0	253.132607
		1				
	132KV KOCHAS			72.7989	0	72.7989

Voltages		5680.034028	60.397761	6766.761507	257.87813	12765.07143
Total for all						
	NAWADA GIS			7.79384	0	7.79384
	220KV SIPARA			108.7388	0	108.7388
	220KV PUSOULI			6.5996	0	6.5996
	220KV KHAGAUL			371.464299	0	371.46429
	220KV FATUHA			215.17003	0	215.1700
	220KV DEHRI			130.319881	0	130.31988
	220KV BODHGAYA			170.799452	0	170.79945
	220KV BIHARSARIF			0.0491	0	0.049
	132KV WAZIRGANJ			42.34635	0	42.3463
	132KV TEKARI			49.9196	0	49.919
	132KV TEHTA			40.8826	0	40.882
	132KV TARAPUR			52.48672	0	52.4867
	132KV SULTANGANJ			77.0174	0	77.017
	132KV SONENAGAR			92.8453	29.998916	122.84421
	132KV SHERGHATI			59.04011	0	59.0401
	132KV SHEKHPURA			72.622	0	72.62
	132KV SASARAM			97.523152	0	97.52315
	132KV SABOUR			187.3742	0	187.374
	132KV RAMGARH			38.998	0	38.99
	132KV RAJGIR			64.6427	0	64.642
	132KV RAFIGANJ			70.9141	0	70.914
	132KV PIRO			30.827	0	30.82
	132KV NAWADA			213.940399	0	213.94039
	132KV NAUGACHIA			71.2464	0	71.246
	132KV NALANDA			72.835	0	72.83
	132KV MUNDESHWARI(BHABHUA)			7.09488	0	7.0948
	132KV MOHANIA			94.0329	0	94.032
	132KV MITHAPUR			132.793714	0	132.79371
	132KV MASAUDHI			62.944	0	<u>117.10542</u> 62.94

	ransmission Licensee : BSPTCL livered by Transmission license		ion		Form No	o P2
	/ Bulk consumers at interface p					
Voltage			icensee / Bulk		Total Energy	
Level	Name of Sub-Station		L (MUs)	SBPDCL	Delivered (MUs)	
220 KV	N/A	North Bihar N/A	Railway N/A	South Bihar N/A	Railway N/A	N
132 KV	132KV KHAGARIA	0	5.30784	0	0	5.307
	220KV MADHEPURA	0	3.13884	0	0	3.138
	132ΚV ΚΑΤΑΙΥΑ	901.799424		0	-	901.7994
	132KV SHEETALPUR	0		0	0	15.60
	132KV VAISHALI 132KV CHAPRA	0		0	0	16.554 17.62644
	220KV GOPALGANJ	0.98016		0	0	0.980
	132KV SIWAN	0		0	0	15.78
	132KV HAZIPUR	0	10.5974736	0	0	10.5974
	132KV RAXAUL	483.6024		0	0	483.6
	132KV RAMNAGAR	151.7224344	-	0	0	151.72243
	132KV MOTIHARI 132KV KATIHAR	1.7371272	0 10.77912	0	0	1.7371
	132KV KATIHAR 132KV SAMASTIPUR	0		0	0	10.77
	132KV DALSINGHSARAI	0		0	0	24.6
	132KV ARA	0		0	25.9433592	25.9433
	132KV AURANGABAD	0	0	139.41156	0	139.41
	132KV BANJARI	0	-	4.52064	0	4.52
	132KV DUMRAON	0	-	0	28.42992	28.42
	132KV HATHIDAH 132KV JAMUI	0	-	0		25.7852 50.167
	132KV JEHANABAD	0	-	0		27.6980
	132KV LAKHISARAI	0	-	0		37.8291
	132KV RAFIGANJ	0	0	0.2563152	39.24888	39.5051
	132KV RAJGIR	0	-	4.1364	0	4.1
	132KV SHERGHATI	0		0.30972	0	0.30
	132KV SONENAGAR	0		4.557312 0	26.6245104 29.381208	31.1818 29.381
	220KV BODHGAYA 220KV FATUHA	0	-	0	33.460128	33.460
	220KV KHAGAUL	0	-	0		33.5189
	220KV PUSOULI	0		0	88.2324552	88.2324
33 KV	132KV ARARIA	57.99264	0	0	0	57.992
	132KV ARERAJ	81.22236				81.22
	132KV BAISI	11.076		0	0	11.
	132KV BALIA	60.3732		0		60.3
	132KV BANMANKHI 132KV BARSOI	86.5968		0	0	86.5
	132KV BELSAND	51.66		0	0	51
	132KV BENIPATTI	90.3324		0	0	90.3
	132KV BETTIAH	296.781936	0	0	0	296.781
	132KV CHAKIYA	57.22848				57.22
	132KV CHAPRA	279.9672		0	0	279.9
	132KV DALSINGHSARAI	159.6313872		0	0	159.6313
	132KV DARBHANGA 132KV DHAKA	227.055		0	0	227. 194.3311
	132KV DHAMDAHA	0	0			134.3311
	132KV DHANHA (THAKRAHA)	4.01328		0	0	4.01
	132KV EKMA	104.928288	0	0	0	104.928
	132KV FORBISGANJ	311.8894104		0	0	311.8894
	132KV GANGAWARA	300.3421344		0		300.3421
	132KV HATHUA 132KV HAZIPUR	105.58848 471.2552208		0	0	105.58 471.2552
	132KV JAINAGAR	125.9264808		0	0	125.9264
	132KV JANDAHA	245.09016		0	0	245.09
	132KV KATAIYA	173.9506512		0	0	173.9506
	132KV KATIHAR	269.74968	0	0	0	269.74
	132KV KHAGARIA	266.699448		0	0	266.699
	132KV KISHANGANJ	172.737648		0		172.737
	132KV KUSHESHWARSTHAN	109.6274832			0	109.6274
	132KV MADHUBANI 132KV MAHARAJGANJ	143.7650448		-		143.7650 111.4

	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 152.2958304	0	0	0	227.1307656
	132KV PHULPARAS 132KV PURNEA		0	0	0	152.2958304
-	132KV PORNEA	531.32064 68.22336	0	0	0	531.32064 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
		184.23264	0	0	0	184.23264
	220KV MOTIPUR 220KV MUSAHARI	113.09484 101.32608	0	0	0	<u>113.09484</u> 101.32608
	220KV MOSAHARI 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
L	132KV BIKRAMGANJ	0	0	279.72	0	279.72
ļ	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 99.5196	0	493.433424
	132KV GOH 132KV HARNAUT	0	0	99.5196 168.9744	1.29456	99.5196 170.26896
	132KV HARNAUT 132KV HATHIDAH	0	0	159.5868	1.29450	170.20890
	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

Voltages		13632.08167	144.9546264	16240.22762	618.907512	30636.17142
Total for all					-	
	NAWADA GIS	0	0	18.705216	0	18.705216
	220KV SIPARA	0	0	260.97312	0	260.97312
	220KV PUSOULI	0	0	15.83904	0	15.83904
	220KV KHAGAUL	0	0	891.5143176	0	891.5143176
	220KV FATUHA	0	0	516.408072	0	516.408072
	220KV DEHRI	0	0	312.7677144	0	312.7677144
	220KV BODHGAYA	0	0	409.9186848	0	409.9186848
	220KV BIHARSARIF	0	0	0.11784	0	0.11784
	132KV WAZIRGANJ	0	0	101.63124	0	101.63124
	132KV TEKARI	0	0	119.80704	0	119.80704
	132KV TEHTA	0	0	98.11824	0	98.11824
	132KV TARAPUR	0	0	125.968128	0	125.968128
	132KV SULTANGANJ	0	0	184.84176	0	184.84176
	132KV SONENAGAR	0	0	222.82872	71.9973984	294.8261184
	132KV SHERGHATI	0	0	141.696264	0	141.696264
	132KV SHEKHPURA	0	0	174.2928	0	174.2928
	132KV SABOOK	0	0	234.0555648	0	234.0555648
	132KV SABOUR	0	0	449.69808	0	449.69808
	132KV RAMGARH	0	0	93.5952	0	93.5952
	132KV RAIGAR	0	0	155.14248	0	155.14248
	132KV RAFIGANJ	0	0	170.19384	0	170.19384
	132KV NAWADA	0	0	73.9848	0	73.9848
	132KV NAUGACHIA 132KV NAWADA	0	0	513.4569576	0	513.4569576
	132KV NALANDA	0	0	174.804 170.99136	0	174.804 170.99136
	132KV MUNDESHWARI(BHABHUA) 132KV NALANDA	0	0	17.027712	0	17.027712
		-	-		-	
	132KV MOHANIA	0	0	225.67896	0	225.6789
	132KV MASAUDHI 132KV MITHAPUR	0	0	151.0656 318.7049136	0	151.065 318.704913

•••	livered by Transmission license / Bulk consumers at interface p				Form No						
Voltage	Licensees/ Bulk consumers at interface points Distribution Licensee / Bulk Consumer										
					Total Energy						
Level	Name of Sub-Station		NBPDCL (MUs)		. (MUs)	Delivered (MU					
220 KV	N/A	North Bihar N/A	Railway N/A	South Bihar N/A	Railway N/A						
20 80					N/A						
32 KV	132KV KHAGARIA	0	5.838624	0	0	5.838					
	220KV MADHEPURA	0	3.452724	0	0	3.452					
	132ΚV ΚΑΤΑΙΥΑ	991.9793664	0	0		991.9793					
	132KV SHEETALPUR	0	17.17056	0	0	17.17					
	132KV VAISHALI 132KV CHAPRA	0	18.209664 19.38908664	0	0	18.209 19.38908					
	220KV GOPALGANJ	1.078176	19.58908004	0	0	19.38908					
	132KV SIWAN	0	17.364996	0	0	17.364					
	132KV HAZIPUR	0	11.65722096	0	0	11.65722					
	132KV RAXAUL	531.96264	0	0	0	531.96					
	132KV RAMNAGAR	166.8946778	0	0	0	166.8946					
	132KV MOTIHARI	1.91083992	0	0	0	1.91083					
	132KV KATIHAR	0	11.857032	0		11.857					
	132KV SAMASTIPUR 132KV DALSINGHSARAI	0	16.440072 27.11808	0	0	16.440 27.11					
	132KV ARA	0	27.11808	0	28.53769512	27.11					
	132KV AURANGABAD	0	0	153.352716	28.55705512	153.352					
	132KV BANJARI	0	0	4.972704	0	4.972					
	132KV DUMRAON	0	0	0	31.272912	31.272					
	132KV HATHIDAH	0	0	0	28.36376136	28.36376					
	132KV JAMUI	0	0	0	55.1846592	55.1846					
	132KV JEHANABAD	0	0	0	30.46782816	30.46782					
	132KV LAKHISARAI	0	0	0		41.61203					
	132KV RAFIGANJ 132KV RAJGIR	0	0	0.28194672	43.173768	43.45571					
	132KV SHERGHATI	0	0	4.55004 0.340692	0	4.55					
	132KV SONENAGAR	0	0	5.0130432	29.28696144	34.30000					
	220KV BODHGAYA	0	0	0		32.3193					
	220KV FATUHA	0	0	0	36.8061408	36.8061					
	220KV KHAGAUL	0	0	0	36.87081288	36.87081					
	220KV PUSOULI	0	0	0	97.05570072	97.05570					
33 KV	132KV ARARIA	63.791904	0	0	0	63.791					
	132KV ARERAJ	89.344596	0	0		89.344					
	132KV BAISI 132KV BALIA	12.1836	0	0	-	12.1 66.41					
	132KV BANMANKHI	95.25648	0	0		95.25					
	132KV BARSOI	129.635352	0	0	0	129.635					
	132KV BELSAND	56.826	0	0		56.					
	132KV BENIPATTI	99.36564	0	0	0	99.36					
	132KV BETTIAH	326.4601296	0	0	0	326.4601					
	132KV CHAKIYA	62.951328	0	0	0	62.951					
	132KV CHAPRA	307.96392	0	0	0	307.96					
	132KV DALSINGHSARAI	175.5945259				175.5945					
	132KV DARBHANGA 132KV DHAKA	249.7605 213.7642764	0	0	0	249.7					
	132KV DHAKA 132KV DHAMDAHA	213.7642764	0	0	0	213.7642					
	132KV DHANHA (THAKRAHA)	4.414608	0	0	0	4.414					
	132KV EKMA	115.4211168	0	0		115.4211					
	132KV FORBISGANJ	343.0783514	0	0	0	343.0783					
	132KV GANGAWARA	330.3763478	0	0	0	330.3763					
	132KV HATHUA	116.147328	0	0		116.147					
	132KV HAZIPUR	518.3807429		0		518.3807					
	132KV JAINAGAR	138.5191289	0			138.5191					
	132KV JANDAHA 132KV KATAIYA	269.599176	0	0	0	269.599					
	132KV KATAIYA 132KV KATIHAR	191.3457163 296.724648	0	0		191.3457 296.724					
			0	0		293.3693					
	132KV KHAGARIA	293.3693928				233.30.33					
	132KV KHAGARIA 132KV KISHANGANJ	293.3693928 190.0114128	0	0	-	190.0114					
			-	-	0						

	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		
	132KV MASHRAKH	171.0829296	0	0	-	
	132KV MOTIHARI	448.1158704	0	0	0	
		523.910772	3.66747744	0		
	132KV NARKATIAGANJ	80.056416	0	0		
	132KV NIRMALI 132KV PANDAUL	32.20008 249.8438422	0	0	0	
	132KV PANDAOL 132KV PHULPARAS	167.5254134	0	0	0	
	132KV PURNEA	584.452704	0	0	-	
	132KV Raghunathpur	75.045696	0	0	0	
	132KV RAMNAGAR	282.1058803	0	0		
	132KV RAXAUL	238.3711493	0	0		
	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	
	132KV SKMCH	523.1546707	0	0	0	
	132KV SONEBARSA	90.1009296	0	0	0	90.1009296
L	132KV SUPOUL	187.7735904	0	0		
	132KV SURSAND(PUPRI)	106.910496	0	0	0	
	132KV TRIVENIGANJ	27.79128	0	0	0	
	132KV UDAKISHANGANJ	174.0259066	0	0	0	
	132KV VAISHALI	307.2307999	0	0	0	
	220KV BEGUSARAI	502.20852	0	0		
	220KV GOPALGANJ	502.1343043	0	0	0	502.1343043
	220KV KISHANGANJ (NEW)	49.243392	0	0	0	
		202.655904	0	0		
	220KV MOTIPUR 220KV MUSAHARI	124.404324	0	0	0	
	220KV MUSAHARI 220KV SAMASTIPUR	111.458688 37.76784	0	0	0	
	AMNOUR GIS	120.179136	0	0	0	
	132KV ARA	0	0	406.8639406	0	
	132KV ATAULA	0	0	263.958816	0	
	132KV AURANGABAD	0	0	355.042248	0	
	132KV BANJARI	0	0	148.5792581	0	
	132KV BANKA(OLD)	0	0	295.5412416	0	295.5412416
	132KV BARH	0	0		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			
	132KV DUMRAON	0	0	285.8724		
ļ	132KV EKANGARSARAI	0	0		0	
	132KV GAIGHAT	0	0			
	132KV GOH	0	0	109.47156		
	132KV HARNAUT	0	0	185.87184	1.424016	
		0	0	175.54548		
	132KV HULASGANJ	0	0	128.786856	0	
		0	0	130.886976	0	
	132KV JAGDISHPUR	0	0	270.138	0	
	132KV JAKKANPUR 132KV JAMALPUR	0	0	802.2590822 302.046756	-	802.2590822 327.747948
	132KV JAMALPOR 132KV JAMUI	0	0	405.848586	25.701192	
	132KV JEHANABAD	0	0			
	132KV KAHALGAON	0	0	263.1332616		
	132KV KARAMNASA	0	0			
	132KV KARBIGHAIA	0	0	486.3804		489.0336
	132KV KATRA	0	0		0	
1	132KV KOCHAS	0	0	192.189096	0	
	132KV KUDRA	0	0	102.83856	0	102.83856

Voltages		14995.28983	159.450089	17864.25038	680.7982632	33699.7885
Total for all						
	NAWADA GIS	0	0	20.5757376	0	20.575737
	220KV SIPARA	0	0	287.070432	0	287.07043
	220KV PUSOULI	0	0	17.422944	0	17.42294
	220KV KHAGAUL	0	0	980.6657494	0	980.665749
	220KV FATUHA	0	0	568.0488792	0	568.048879
	220KV DEHRI	0	0	344.0444858	0	344.044485
	220KV BODHGAYA	0	0	450.9105533	0	450.910553
	220KV BIHARSARIF	0	0	0.129624	0	0.12962
	132KV WAZIRGANJ	0	0	111.794364	0	111.79436
	132KV TEKARI	0	0	131.787744	0	131.78774
	132KV TEHTA	0	0	107.930064	0	107.93006
	132KV TARAPUR	0	0	138.5649408	0	138.564940
	132KV SULTANGANJ	0	0	203.325936	0	203.32593
	132KV SONENAGAR	0	0	245.111592	79.19713824	324.30873
	132KV SHERGHATI	0	0	155.8658904	0	155.865890
	132KV SHEKHPURA	0	0	191.72208	0	191.7220
	132KV SASARAM	0	0	257.4611213	0	257.461121
	132KV SABOUR	0	0	494.667888	0	494.66788
	132KV RAMGARH	0	0	102.95472	0	102.9547
	132KV RAJGIR	0	0	170.656728	0	170.65672
	132KV RAFIGANJ	0	0	187.213224	0	187.2132
	132KV PIRO	0	0	81.38328	0	81.383
	132KV NAVADA	0	0	564.8026534	0	564.802653
	132KV NAUGACHIA	0	0	188.090496	0	188.0904
	132KV MONDESHWARI(BHABHOA)	0	0	192.2844	0	192.28
	132KV MUNDESHWARI(BHABHUA)	0	0	18.7304832	0	18.73048
	132KV MOHANIA	0	0	248.246856	0	248.2468
	132KV MITHAPUR	0	0	350.575405	0	350.5754
	132KV MASAUDHI	0	0	166.17216	0	166.172

Name of Transmission Licensee : BSPTCL										
	elivered by Transmission license		ion		Form No	o P2				
•••	/ Bulk consumers at interface p	oints			-	-				
Voltage	Name of Oak Otation		icensee / Bulk		(8411.)	Total Energy				
Level	Name of Sub-Station		L (MUs)	SBPDCL		Delivered (MUs				
222.141	11/4		Railway		Railway					
220 KV	N/A	N/A	N/A	N/A	N/A	N				
.32 KV	132KV KHAGARIA	0		0	-	6.1040				
		0		0	-					
		1037.069338	0	0	-	1037.0693				
	132KV SHEETALPUR	0		0	0	17.951				
	132KV VAISHALI	0		0	0					
	132KV CHAPRA 220KV GOPALGANJ	1.127184	20.27040878	0	-	20.270408				
	132KV SIWAN	0	-	0	-	18.1543				
	132KV HAZIPUR	0		0	-	12.187094				
	132KV RAXAUL	556.14276	12.18709464	0		556.142				
	132KV RAMNAGAR	174.4807996	0	0	0	174.48079				
	132KV MOTIHARI	1.99769628	0	-	-					
	132KV KATIHAR	1.55705028	-	0	0	12.395				
	132KV KATIHAK 132KV SAMASTIPUR	0		0	-	12.395				
	132KV DALSINGHSARAI	0		0	-	28.35				
	132KV DALSINGHSARAI	0		0	-	29.834863				
	132KV AURANGABAD	0	-	160.323294	23.03400300	160.323				
	132KV BANJARI	0	_	5.198736	-	5.198				
	132KV DUMRAON	0	_	0		32.694				
	132KV HATHIDAH	0		0		29.65302				
	132KV JAMUI	0		0		57.6930				
	132KV JEHANABAD	0		0		31.85272				
	132KV LAKHISARAI	0		0		43.50348				
	132KV RAFIGANJ	0	_	0.29476248	45.136212	45.430974				
	132KV RAJGIR	0		4.75686	45.150212					
	132KV SHERGHATI	0		0.356178	0	0.356				
	132KV SONENAGAR	0		5.2409088	30.61818696	35.85909				
	220KV BODHGAYA	0		0		33.7883				
	220KV FATUHA	0	_	0		38.4791				
	220KV KHAGAUL	0		0		38.54675				
	220KV PUSOULI	0		-		101.4673				
33 KV	132KV ARARIA	66.691536	0	0	0	66.691				
	132KV ARERAJ	93.405714			-					
	132KV BAISI	12.7374								
	132KV BALIA	69.42918	_		-					
	132KV BANMANKHI	99.58632		-	-					
	132KV BARSOI	135.527868	_	0	-					
	132KV BELSAND	59.409								
	132KV BENIPATTI	103.88226		0		103.88				
	132KV BETTIAH	341.2992264								
	132KV CHAKIYA	65.812752		0	-					
	132KV CHAPRA	321.96228	_							
	132KV DALSINGHSARAI	183.5760953								
	132KV DARBHANGA	261.11325		0						
	132KV DAKBHANGA	223.4808344				-				
	132KV DHAMDAHA		0	0						
	132KV DHANHA (THAKRAHA)	4.615272		0	-	4.615				
	132KV EKMA	120.6675312								
	132KV FORBISGANJ	358.672822		0						
	132KV GANGAWARA	345.3934546								
	132KV HATHUA	121.426752	_	0	-					
	132KV HAZIPUR	541.9435039	_			-				
	132KV JAINAGAR	144.8154529		0						
	132KV JANDAHA	281.853684		0						
	132KV KATAIYA	200.0432489	_							
	132KV KATIHAR	310.212132		0						
	132KV KHAGARIA	306.7043652	_		-					
	132KV KISHANGANJ	198.6482952								
	132KV KUSHESHWARSTHAN	126.0716057								
	132KV MADHUBANI	165.3298015	_	-						

<b></b>	132KV MAHARAJGANJ	128.19096	0	о	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
<u> </u>		97.61844	0	0	0	97.61844
	132KV SIMRIBAKHTIYARPUR	49.21356	0	0	0	49.21356
<u> </u>	132KV SITAMARHI	357.0334344	0	0	0	357.0334344
<u> </u>	132KV SIWAN	510.1614636	0	0	0	510.1614636
<u> </u>	132KV SKMCH	546.9344285	0	0	0	546.9344285
	132KV SONEBARSA 132KV SUPOUL	94.1964264 196.3087536	0	0	0	94.1964264 196.3087536
		196.3087536	0	0	0	196.3087536
	132KV SURSAND(PUPRI) 132KV TRIVENIGANJ		0	0	0	
-	132KV UDAKISHANGANJ	29.05452 181.936175	0	0	0	29.05452 181.936175
-			0	0	0	321.1958363
	132KV VAISHALI 220KV BEGUSARAI	321.1958363 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
		0	0	698.6459953	0	698.6459953
	132KV KATRA					
	132KV KATKA 132KV KOCHAS 132KV KUDRA	0	0	200.924964 107.51304	0	200.924964 107.51304

Voltages		15676.89392	166.6978204	18676.26176	711.7436388	35231.59714
Total for all						
	NAWADA GIS	0	0	21.5109984	0	21.5109984
	220KV SIPARA	0	0	300.119088	0	300.119088
	220KV PUSOULI	0	0	18.214896	0	18.214896
	220KV KHAGAUL	0	0	1025.241465	0	1025.241465
	220KV FATUHA	0	0	593.8692828	0	593.8692828
	220KV DEHRI	0	0	359.6828716	0	359.6828716
	220KV BODHGAYA	0	0	471.4064875	0	471.4064875
	220KV BIHARSARIF	0	0	0.135516	0	0.135516
	132KV WAZIRGANJ	0	0	116.875926	0	116.875926
	132KV TEKARI	0	0	137.778096	0	137.778096
	132KV TEHTA	0	0	112.835976	0	112.835976
	132KV TARAPUR	0	0	144.8633472	0	144.8633472
	132KV SULTANGANJ	0	0	212.568024	0	212.568024
	132KV SONENAGAR	0	0	256.253028	82.79700816	339.0500362
	132KV SHERGHATI	0	0	162.9507036	0	162.9507036
	132KV SHEKHPURA	0	0	200.43672	0	200.43672
	132KV SASARAM	0	0	269.1638995	0	269.1638995
	132KV SABOUR	0	0	517.152792	0	517.152792
	132KV RAMGARH	0	0	107.63448	0	107.63448
	132KV RAJGIR	0	0	178.413852	0	178.413852
	132KV RAFIGANJ	0	0	195.722916	0	195.722916
	132KV PIRO	0	0	85.08252	0	85.08252
	132KV NAWADA	0	0	590.4755012	0	590.4755012
	132KV NAUGACHIA	0	0	196.640064	0	196.640064
	132KV NALANDA	0	0	201.0246	0	201.0246
	132KV MUNDESHWARI(BHABHUA)	0	0	19.5818688	0	19.5818688
	132KV MOHANIA	0	0	259.530804	0	259.530804
	132KV MITHAPUR	0	0	366.5106506	0	366.5106506
	132KV MASAUDHI	0	0	173.72544	0	173.7254
	132KV LAKHISARAI	0	0	323.210973	0	323.21097

	ransmission Licensee : BSPTCI	_			E	<b>D</b> 2
	livered by Transmission license / Bulk consumers at interface p		ion		Form No	D P2
			icensee / Bulk	Consumer		Tatal Frances
Voltage Level	Name of Sub-Station	NBPDC	L (MUs)	SBPDCL		Total Energy Delivered (MUs
		North Bihar	Railway	South Bihar	Railway	
220 KV	N/A	N/A	N/A	N/A	N/A	N,
132 KV	132KV KHAGARIA	0	4.056	0	0	4.9
L32 KV	220KV MADHEPURA	0		0	0	0.31
	132KV KATAIYA	911.886		0	0	911.8
	132KV SHEETALPUR	0		0	0	13.251
	132KV VAISHALI	0	28.356	0	0	28.3
	132KV CHAPRA	0		0	0	15.98551
	220KV GOPALGANJ	0.9862	0	0	0	0.98
	132KV SIWAN 132KV HAZIPUR	0		0	0	5.45 14.5981
	132KV RAXAUL	206.966		0	-	206.9
	132KV RAMNAGAR	115.0419491	0	0	0	115.04194
	132KV MOTIHARI	2.302842	0	0	0	2.3028
	132KV KATIHAR	0	6.8457	0	0	6.84
	132KV SAMASTIPUR	0		0	0	15.11
	132KV DALSINGHSARAI	0		0	0	16.14
	132KV ARA 132KV AURANGABAD	0	-	0 94.861389	25.211865 0	25.2118 94.8613
	132KV AURANGABAD	0	-	7.85096	0	94.8613
	132KV DUMRAON	0	-	7.85050	26.5675	26.56
	132KV HATHIDAH	0	-	0	29.814267	29.8142
	132KV JAMUI	0	0	0	39.9064	39.90
	132KV JEHANABAD	0	0	0	24.095338	24.0953
	132KV LAKHISARAI	0		0	36.801466	36.8014
	132KV RAFIGANJ	0	-	0.114384	38.16685	38.2812
	132KV RAJGIR	0		4.1033	0	4.10
	132KV SHERGHATI 132KV SONENAGAR	0	-	0.1898	31.358144	43.5021
	220KV BODHGAYA	0	-	12.144	28.410299	28.4102
	220KV FATUHA	0	-	0		27.5231
	220KV KHAGAUL	0	0	0	30.121202	30.1212
	220KV PUSOULI	0	0	0	82.608388	82.6083
33 KV	132KV ARARIA	22.5843	0	0	0	22.58
	132KV ARERAJ	41.1786				
	132KV BAISI 132KV BALIA	3.8855		0	0	3.88 37.38
	132KV BANMANKHI	46.3455			_	46.34
	132KV BARSOI	19.4293		0		19.42
	132KV BELSAND	45.557		0		45.5
	132KV BENIPATTI	77.370315	0	0	0	77.3703
	132KV BETTIAH	220.382595				220.3825
	132KV CHAKIYA	29.670332		0		29.6703
	132KV CHAPRA	254.020954		0		254.0209
	132KV DALSINGHSARAI 132KV DARBHANGA	150.321453 176.51734		0	0	150.3214 176.517
	132KV DAKBITANGA 132KV DHAKA	134.104626		0		134.1046
	132KV DHANHA (THAKRAHA)	6.323		0		6.3
	132KV EKMA	87.054967		0		87.0549
	132KV FORBISGANJ	283.087768	0	0	0	283.0877
	132KV GANGAWARA	209.053372		0	0	209.0533
	132KV HATHUA	74.439578		0		74.4395
	132KV HAZIPUR	349.8565773		0		349.85657
	132KV JAINAGAR 132KV JANDAHA	131.994477 176.781629				131.9944 176.7816
	132KV KATAIYA	159.549296		0	0	159.5492
	132KV KATIHAR	213.034458		0	0	213.0344
	132KV KHAGARIA	199.525787		0	0	199.5257
	132KV KISHANGANJ	167.14321		0		167.143
	132KV KUSHESHWARSTHAN	80.953484				80.9534
	132KV MADHUBANI	119.661764		0		119.6617
	132KV MAHARAJGANJ	80.6276	0	0	0	80.62

1	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 132KV RAMNAGAR	15.651614 213.713291	0	0	0	<u>15.651614</u> 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
L	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 220KV BEGUSARAI	227.689253 402.250061	0	0	0	227.689253 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	
	132KV BANKA(OLD)	0	0	246.911643	0	246.911643
	132KV BARH	0	0	222.215718	0	222.215718
		0	0		0	
	132KV BELAGANJ	0	0	91.155068	0	
	132KV BIHTA 132KV BIKRAMGANJ	0	0	568.423715	0	
	132KV BIXRAIVIGANJ 132KV BUXAR	0	0	279.5054 196.1305	0	279.5054 196.1305
	132KV CHANDAUTI	0	0	424.54424	39.916	464.46024
	132KV DIGHA	0	0	342.155244	0	
	132KV DUMRAON	0	0	225.985	0	
	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	
	132KV HARNAUT	0	0	144.815	1.033	145.848
	132KV HATHIDAH	0	0	142.5685	0	142.5685
L	132KV HULASGANJ	0	0	99.5705	0	99.5705
	132KV IMAMGANJ	0	0	119.4698	0	
	132KV JAGDISHPUR	0	0	217.654178	0	
┣───	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 132KV KAHALGAON	0	0	193.8537445 221.04425	0	<u>193.8537445</u> 221.04425
	132KV KARAMNASA	0	0	179.258565	28.351093	221.04425
	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	
	132KV KUDRA	0	0	119.176	0	
	132KV LAKHISARAI	0	0	247.096375	0	
<b>1</b>	132KV MASAUDHI	0	0	137.33316	0	137.33316

Voltages		10789.54414	131.4543995	14030.84894	583.35335	25535.20084
Total for all						
	NAWADA GIS	0	0	5.74336	0	5.74336
	220KV SIPARA	0	0	190.3472	0	190.3472
	220KV PUSOULI	0	0	1.7876	0	1.787
	220KV KHAGAUL	0	0	716.354093	0	716.35409
	220KV FATUHA	0	0	464.76535	0	464.7653
	220KV DEHRI	0	0	280.1618663	0	280.161866
	220KV BODHGAYA	0	0	358.9476601	0	358.947660
	132KV WAZIRGANJ	0	0	92.74385	0	92.7438
	132KV TEKARI	0	0	114.9504	0	114.950
	132KV TEHTA	0	0	85.835	0	85.83
	132KV TARAPUR	0	0	126.4394	0	126.439
	132KV SULTANGANJ	0	0	115.6395	0	115.639
	132KV SONENAGAR	0	0	240.0604	66.340742	306.40114
	132KV SHERGHATI	0	0	136.772	0	136.77
	132KV SHEKHPURA	0	0	178.1015	0	178.101
	132KV SASARAM	0	0	176.417422	0	176.41742
	132KV SABOUR	0	0	418.01978	0	418.0197
	132KV RAMGARH	0	0	85.308	0	85.30
	132KV RAJGIR	0	0	146.49125	0	146.4912
	132KV RAFIGANJ	0	0	139.9233	0	139.923
	132KV PIRO	0	0	31.811	0	31.81
	132KV NAWADA	0	0	443.44351	0	443.4435
	132KV NAUGACHIA	0	0	155.6934	0	155.693
	132KV NALANDA	0	0	155.964	0	155.96
	132KV MUNDESHWARI(BHABHUA)	0	0	5.794	0	5.79
	132KV MOHANIA	0	0	204.0667	0	204.066
	132KV MITHAPUR	0	0	254.07513	0	254.0751

# BIHAR GAZETTE (EXTRA) 28 TH August 2018

## Name of Transmission Licensee Details of Electrical Accidents

## Form No.: P3

	Previo	ous Year	Current Year (RE)		
Type of Accident	No. of A	Accdents	No. of Accdents		
	FATAL	NON FATAL	FATAL	NON FATAL	
Human	2	1	2	1	
Other, if any (please Specify)	Nil	Nil	Nil	Nil	
Total	2	1	2	1	

# FY 2017-18 (Previous Year)

Fatal Accident occured 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 occured in :	<ul> <li>(i) 132 kV Sipara - Jakkanpur T/L on dated 23.09.17</li> </ul>	

# FY 2018-19 (Current Year)

2.18.

## Name of Transmission Licensee Abstract of Outages due to feeder tripping

Form No.: P4

Revised

			_	·				0			_	•	
s. No.	Detail		T .	evious Years			T	Current Years				uing Years	
		total No. of feeders	No. of tripping	Total Duration of Trippings (hrs.)	duration of interruptio n per teeder	total No. of feeders	No. of tripping	Total Duration of Trippings (hrs.)	Average duration of interruptio n per teeder	No. of feeders	No. of tripping	Total Duration of Trippings (hrs.)	Average duration of interruptio n per teeder
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		Pr	evious Years		Current Years			Ensuing Years				
		total No. of feeders	No. of tripping	Total Duration of Trippings (hrs.)	Average duration of interruption per teeder	total No. of feeders	No. of tripping	Total Duration of Trippings (hrs.)	Average duration of interruption per teeder	No. of feeders	No. of tripping	Total Duration of Trippings (hrs.)	Average duration of interruption per teeder
3	Feeder Voltage Level (132 KV)	278	377	5708:29:00	20:32:03	291	168	2692:13:00	09:15				

	BIHAR GAZETTE (EXTR.	A) 28TH AUG	JST 2018					
Name of T	Transmission Licensee							
Major Syst	tem Disturbances				-		Forn No. P5	revised
SI. No.	Distrurbances	Previo	us Year	Curre	nt Years	Ensuing Years		
		Number	Duration	Number	Duration	Number	Duration	
A	Disturbances when DISCOM supply has been effected for more than 1 hr.							
iv	Due to 220 KV transformer failure	Nil		Nil				
v	Due to 220 KV transmission line failure	Nil		Nil				
SI. No.	Distrurbances	Previo	us Year	Curre	nt Years	Ensu	ing Years	
		Number	Total	Number	Total	Number	Duration	
vii	Due to 132 KV transformer failure	Nil		1	08:00			
viii	Due to 132 KV transmission line failure	12	93:58:00	6	46:55:00			
ix	Due to 132 KV sub - station equipment (CT, CVT etc.) failure	1	53:55:00	1	05:54			
В	Estimated unserved energy due to such interruptions							
с	Other Transmission disturbamces when DISCOM supply has got effected							
i								-
ii								-
iii								1
iv								1
v								1
vi								1

## Name of Transmission Licensee

Frequen	cy variation						Form No. : P6	REVISE
SI. No.	Frequency	Previous	Years	Current \	/ears(till Aug 2018)			
		No. of Hours	As percentage of	No. of Hours		No. of Hours		
			total hours in the		As percentage of total		As percentage of total	
			year (%)		hours in the year (%)		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							

SI. No.	Frequency	Forecast For FY (2019-2020)		Forecast	For FY (2020-2021)	Forecas	st For FY (2021-2022)	
		No. of Hours	As percentage of	No. of Hours		No. of Hours		
			total hours in the		As percentage of total		As percentage of total	
			year (%)		hours in the year (%)		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

	Name of Transmission Licensee Voltage fluctuation																Form No	: P7			
	Name of GSS	Transform	Reactive			Previous Yea	irs					Current	Years						Ensuing	Years	
s.		ation	Comp		Time durin	g which volta	age in an yea	r		Time during which voltage in an year(till Aug 2018)					L8)		Time during which		voltage in an year		
No	Name of 655	capacity	ensati on	More than	More than upper limit		n upper &	Less than lo	ower limit in	More than upper limit		Between	upper &	Less than lo	ower limit in	More t	han upper	Betwee	n upper &	Less th	an lower limit in
		capacity	provided	in	%age	lower limit		%	age	in %	age	lower limit		%	age	limit	in %age	low	er limit		%age
	220 KV			Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age
1	Biharsharif	450 MVA	Nil																		
	Feeder Voltage Level (220 KV)			1238.25		7520.50	85.850457	1.25	0.0142694	92	2.5054466	3580.00		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	Khagaul	400 MVA																			_
	Feeder Voltage Level (220 KV)			490		8014.00	91.484018	256		11.5	0.3131808	3659.50		1	0.0272331						
	Feeder Voltage Level (132 KV)				0	0.00	0		0		C	0.00	0	)	0						
3	Sipara	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		C	0.00	0		0						_
4	Bodhgaya	760 MVA	Nil																		_
	Feeder Voltage Level (220 KV)			1687.5		7071.50	80.724886	1	0.0114155	759	20.669935	2913.00		0	0						
	Feeder Voltage Level (132 KV)				0	0.00	0		0		C	0.00	0		0						
5	Dehri-On-Sone	400 MVA	Nil															I			<u> </u>
	Feeder Voltage Level (220 KV)			0	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		C	0.00	0		0						
6	Sonenagar(New)	320 MVA	Nil																		
	Feeder Voltage Level (220 KV)			51	0.5821918	8709.00	99.417808	0	0	0		3672.00	100	0	0						
	Feeder Voltage Level (132 KV)			51	0.5021510	0.00	55.417000		0	0		0.00			0						1
7	Pusauli	300 MVA	Nil		0	0.00	0		0		L. L	0.00	0		0						
'	Feeder Voltage Level (220 KV)	SUU IVIVA	INII	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)			2976.25	0 33.975457	0.00	05.884703	12.25	0.1398402	1040	44.002305	0.00	55.5577	0	0						
8	Hajipur	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)			555	0	0.00	07.274343	155.75	0	425.5	11.507051	0.00	00.0551	11.5	0.5151000						1
9	Gopalganj	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		C	0.00	0		0						
10	Darbhanga	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		C	0.00	100		0						
11	Samastipur	320 MVA	Nil																		
	Feeder Voltage Level (220 KV)			421	4.8059361		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		C	0.00	0		0						
12	Begusarai	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		C	0.00	0		0						
13	Madhepura	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		C	0.00	0		0						
14	Kishanganj(New)	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		C	0.00	0		0						
15	Motipur	320 MVA	Nil	Ì		1	l I		1			1	1		1			1			1
	Feeder Voltage Level (220 KV)	1			1	1	l I	1	İ 🗌	580.25	15.802015	3091.75	84.198	0	0	1	1	1	1		
	Feeder Voltage Level (132 KV)	1			1						C	0.00	0		0			1			t
16	Louisen	160 MVA	Nil						1						1						
	Feeder Voltage Level (220 KV)									94	2.5599129			18.75	0.5106209						
	Feeder Voltage Level (132 KV)		_								C	0.00	0		0						

#### Name of Transmission Licensee

	Voltage fluctuation																Form No.: F	7			
		Transform	Reactive			Previous Yea	rs	Current Years											Ensuing Yea	rs	
s.	Name of GSS	ation	Comp		Time during	g which volta	ge in an yea	r		Time during which voltage in an year(till Aug 2018)							Time durin	g which volta	age in an ye	ear	
No	Name of 055	capacity	ensati on provided		upper limit %age		upper & r limit		ower limit in age	More than in %	upper limit 6age	Between lowe	••		ower limit in age		n upper limit %age		n upper & er limit		n lower limit 1 %age
	132 KV	132KV		Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age	Hrs	%age
1	Dumraon		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	Ekma		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	Gopalganj		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					1	
5	Mashrakh		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	Buxar		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					1	
7	Kishanganj		Nil																	1	
	Feeder Voltage Level (132 KV)	100 MVA			0	8760.00	100		0	0	0	3672.00	100.00	0	0						
8	Forbisganj		Nil																	1	
	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	Jehanabad		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	Kochas		Nil																	1	
	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	Ramnagar		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	Bettiah		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	Nawada		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)

Name of Transmission Licensee

Licensee wise Load shedding carried out during the year

Form No. : P8

		Previou	us year	Cuurnt year			
S. No.	Particulars	<b>NBPDCL</b> (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	-					
а	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						
	Total load shedding for the Year	220319 MWH	187678 MWH	85121 MWH	83448 MWH		

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

## BIHAR GAZETTE (EXTRA) 28 TH AUGUST 2018

# Name of Transmission Licensee-Bihar state Power Transmission Co. Ltd., Patna Details of Overloaded feeders

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

Signature of Petitioner

Form No. : P9

Name of Transmission Licensee Details of overloaded Transformers

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Form No. :P10
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SI No.	Rated Voltage		Previous Ye	ars		Current Ye	ars		Ensuing Years	
		Rated Capacity	Actual Load on Transformer	% of Transformers over loaded	Rated Capacity	Actual Load on Transformer	% of Transformers over loaded	Rated Capacity	o Actual Load on Transformer	% of Transformers over loaded
1	220/132/33KV Transformers									
	Capacity									
	Muzaffarpur(Circle)									
	i. Gopalganj	3X100 (240MW)	281	17.08333333						
	i. SKMCH	2x50 (80MW)	85	6.25						
	iii. Raxaul GSS <b>(41MW)</b>				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 <b>(36MW)</b>				2X20 (32MW)	36	12.50	2X20 (32MW)	39.6	23.75
	v.Dhaka <b>(40MW)</b>				2X20 (32MW)	40	25.00	2X20 (32MW)	44	37.50
	Darbhanga(circle)									
	i. Phoolparas (40MW)				2X20 (32MW)	40	25.00	2X20 (32MW)	44	37.50
	Purnea(Circle)									
	i. Kishanganj (New) <b>(320MW)</b>				2x160 (256MW)	320	21.48	2x160 (256MW)	352	33.98
	ii. Udakishanganj <b>(34MW)</b>				2X20 (32MW)	34	6.25	2X20 (32MW)	37.4	16.88
	Biharsarif(circle)									
	i. Harnaut GSS (37MW)				2X20 (32MW)	37	15.63	2X20 (32MW)	40.7	27.19
	Dehri(Circle)									
	i. Dehri <b>(221 MW)</b>				3X100 (210MW)	221	4.30	3X100 (210MW)	243.1	12.93
	ii. Kochas GSS <b>(35MW)</b>				2X20 (32MW)	35	9.38	2X20 (32MW)	38.5	20.31

Signature of Petitioner

## BIHAR GAZETTE (EXTRA) 28 TH AUGUST 2018

Name of Transmission Licensee Failure of Transformers

Form P11 revised

	of Transformers	1			1			Form PI1 revised			
SI No.	Rated Voltage		evious Y	ears		rent Yea					
		Total No. of Transformers	No. of failures	Total Duration of failure (hrs.)	Total No. of Transformers	No. of failures	Total Duration of failure (hrs.	Rem arks			
		IS		•	SL						
1	220/132/33KV Transformers										
	Capacity					1					
	i										
	Total										
2	220/132 KV Transformers										
	GSS/Capacity										
	i. Dehri GSS (100 MVA)	4x100	1×100					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.			
	Total	400	100		1040	420					
3	132/33 KV Transformers										
	GSS/Capacity										
	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 Manufature- 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 Commissoning 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 Commissining date- 20.05.17 Got defective from 04.07.18. Another 20 MVA commisioned on 20.09.2018 Transformer was under warranty			
	viii. Sheohar (50 MVA)				2x50	1x50		Make- ECE Year of manufacture- 2016 Commissining 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.			
	Total	190	70		380	200					

# Name of Transmission Licensee Key Ratios

## Form No: P12

S. No	Particulars	Previous Year	Current Year		Ensuing Years	
		2017-18	2018-19	2019-20	2020-21	2021-22
Α	Financial & Material Management					
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
В	HR Management					
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
с	Operational Performance					
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

4	659	5222	5608	6316	6876
1919	20	60 2	589	3275	3708
	441 90.8	14139 6266.4	16000 6729.6	17500 7579.2	18000 8251.2
14789	015 178	365345 20	381325 2	3227421	26368401
	321		336		

Signature of Petitioner