BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION AT NEW DELHI

PETITION NO. _____/TT/2021

IN THE MATTER OF:

Transmission Corporation of Telangana Limited

... Petitioner

VERSUS

Transmission Corporation of Andhra Pradesh Ltd. & Anr.

...Respondents

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FILED BY:-

DATE: 07.07.2021

PLACE: NEW DELHI

(MSA PARTNERS) ADVOCATE FOR THE PETITIONER D-246, DEFENCE COLONY, NEW DELHI - 110024

BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION AT NEW DELHI

PETITION NO. _____/TT/2021

IN THE MATTER OF:

Petition under Section 79(1)(c) and (d) of the Electricity Act, 2003 for determination of tariff of the inter-State transmission lines connecting two states for the TSTRANSCO-owned transmission lines/system as per this Hon'ble Commission's order dated 05.09.2018 in Petition No. 07/Suo-Motu/2017 and order dated 13.01.2020 in Petition No.2/TT/2019 for inclusion in POC Transmission charges for the period FY 2019-20 to FY 2023-24 in accordance with the CERC (Terms and Conditions of Tariff) Regulations, 2019.

AND IN THE MATTER OF:

Transmission Corporation of Telangana Limited, Vidyut Soudha, Khairatabad, Hyderabad, Telangana-500082

... Petitioner

VERSUS

- Transmission Corporation of Andhra Pradesh Ltd. Vidyut Soudha, Gunadala, Eluru Road, Vijayawada, Andhra Pradesh-520004
- Karnataka Power Transmission Corporation Ltd., Kaveri Bhavan, Kempegowda Road, Bangalore-560009

...Respondents

PETITION UNDER SECTION 79(1)(C) AND (D) OF THE ELECTRICITY ACT, 2003 FOR DETERMINATION OF TARIFF OF THE INTER-STATE TRANSMISSION LINES CONNECTING TWO STATES FOR THE TSTRANSCO-OWNED TRANSMISSION LINES/SYSTEM AS PER THIS HON'BLE COMMISSION'S ORDER DATED 05.09.2018 IN PETITION NO. 07/SUO-MOTU/2017 AND ORDER DATED 13.01.2020 IN PETITION NO. 2/TT/2019 FOR INCLUSION IN POC TRANSMISSION CHARGES FOR THE PERIOD FY 2019-20 TO FY 2023-24 IN ACCORDANCE WITH THE CERC (TERMS AND CONDITIONS OF TARIFF) REGULATIONS, 2019.

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MOST RESPECTFULLY SHOWETH:

- The present Petition is being preferred by the Transmission Corporation of Telangana Limited, the transmission licensee of the State of Telangana which owns certain inter-State transmission lines/system being used by the states of Andhra Pradesh and Karnataka.
- 2. The "Inter-State transmission system" has been defined under Section 2(36) of the Electricity Act, 2003 as under:

l	(36)	"inter-State	transmission	system" ir	icludes-

- (i) any system for the conveyance of electricity by means of main transmission line from the territory of one State to another State;
- (ii) the conveyance of electricity across the territory of an intervening State as well as conveyance within the State which is incidental to such inter-State transmission of electricity;
- (iii) the transmission of electricity within the territory of a State on a system built, owned, operated, maintained or controlled by a Central Transmission Utility;"
- 3. It is submitted that on 02.06.2014, the erstwhile state of Andhra Pradesh was bifurcated and reorganized into the States of Andhra Pradesh and Telangana, which resulted in a number of inter-State transmission lines between the States of Andhra Pradesh and Telangana. Initially, there were 36 inter-State transmission lines that were partly/wholly owned by the Petitioner/the transmission licensee of the State of Telangana. Subsequently, 4 new lines are commissioned in FY 2016-17.
- 4. Thus, currently, there are 40 Inter-State Transmission Lines between the States of Telangana and Andhra Pradesh and there is 1 inter-State Transmission line between the States of Telangana and Karnataka. The SRPC have identified the Inter-State Transmission Lines and has issued.

Chief Engineer Commit & RAD GSTRANSCO, Vidyut Soudha, Hyderabad - 800 082 certificates dated 20.06.2019, 11.09.2019 and 11.06.2020 for the same, which are annexed herewith and collectively marked as **Annexure A.**

5. The details of the 41 Nos. of inter-State transmission lines with part/full ownership of the Petitioner are as below:

S. No.	Asset	COD	Asset Name	Transmission Line Length in ckm (Telangana Portion)	Connecting States
1.	400 KV Srisailam - Kurnool (SC)	06.03.2001	Asset – I	1.5	
	400 KV Kalpaka – Asupaka	09.08.2017		Total TS Portion including LILO = 25.50 CKM	
2.	(a) 400 KV Kalpaka - Asupaka (Part of Old Line 400 KV Kalpaka - Khammam -I)	a 10.05.2002 Asset - II		portion of Old Line = 8.50 CKM	
	(b) LILO of Kalpaka to Khammam - I at Asupaka SS	09.08.2017		New LILO Portion = 17.00 CKM	Telangana –
3.	400 KV Kalpaka – Khammam – II	10.05.2002	Asset - III	121.00	Andhra
	400 KV VTPS – Suryapet– I	30.03.2016		Total (TS Portion including LILO) = 56.66 CKM	Pradesh
4	(a) 400 KV VTPS - Suryapet- I (part of Old Main Line 400KV VTPS - Malkaram - I)	02.04.2013	Asset - IV	Portion of Old line = 54.66 CKM	
	(b) LILO of VTPS to Malkaram – I at Suryapet SS	30.03.2016		New LILO Portion = 2.30 CKM	
	400 KV VTPS- Suryapet - II	14.04.2018		Total TS Portion including LILO = 56.66 CKM	Telangana –
5.	(a) 400 KV VTPS - Suryapet - II (Part of Old Line 400 KV VTPS-Malkaram - II)	02.04.2013	Asset – V	Portion of Old line = 54.66 CKM	Andhra Pradesh
	(b) LILO of VTPS - Malkaram - II at Suryapet SS	14.04.2018		New LILO Portion =	A

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6.	400 KV Srisailam – Sattenapalli Ckt – I	23.10.2000	Asset - VI	0.40	
7.	400 KV Srisailam – Sattenapalli Ckt – II	23.10.2000	Asset - VII	0.40	
8.	220 KV Lower Sileru - KTPS - I	31.03.1967	Asset - VIII	81.0	
9.	220 KV Lower Sileru - KTPS - II	31.03.1979	Asset – IX	25.00	
10.	220 KV Srisailam - Dindi - I	12.09.1982	Asset – X	80.00	1
	220 KV Srisailam - Domalapenta	17.04.2019		Total TS Portion including L1LO = 0.30 CKM	
11.	(a) 220 KV Srisailam – Domalapenta (part of old line 220 KV Srisailam – Dindi - II)	12.09.1982	Asset – XI	Portion of Old Line = 0.00 CKM (Main Line of 220 kV SSLM – Dindi – II Line)	
	(b) LILO of Srisailam – Dindi – II at Domalapenta SS	17.04.2019		New LILO Portion = 0.30 CKM	
12.	220 KV Tallapalli - Nagarjunasagar – III	27.01.1985	Asset – XII	4.00	
13.	220 KV Tallapalli - Nagarjunasagar – I	05.08.1985	Asset - XIII	2.10	
14.	220 KV Tallapalli - Nagarjunasagar – II	05.08.1985	Asset - XIV	2.10	
15.	220 KV Nagarjunasagar Receiving Station - Srisailam (SC) Line	07.02.1989	Asset – XV	4.00	
16.	220 KV Nunna - KTPS	21.01.1992	Asset – XVI	64.45	
17.	220 KV Tandur - Sedam S/C Line	28.02.2001	Asset - XVII	33.60	Telangana Karnataka
18.	220 KV Tallapalli - Chalakurthy	21.07.2007	Asset – XVIII	27.40	Telangana -
19.	220 KV Brahmnakotkur (LIS) - Wanaparthy	29.10.2009	Asset – XIX	78.79	Andhra Pradesh

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	220KV Chillakallu - Suryapeta	21.12.2016		Total TS Portion including LILO = 50.30 CKM	
20.	(a) 220 KV Chillakallu - Suryapeta (part of old line 220 KV Chillakallu-Narketpally - I)	29.03.1999	Asset – XX	portion of Old Line = 38.62 CKM	
	(b) LILO of Chillakallu to Narketpally – I at Suryapeta SS	21.12.2016	73	New LILO Portion = 11.68 CKM	
	220 KV Chillakallu - Pulichintala	05.12.2018		Total TS Portion including LILO = 66.78 CKM	
21.	(a) 220 KV Chillakallu - Pulichintala (Part of Old Line 220KV Chillakallu-Narketpally - II)	29.03.1999	Asset – XXI	Old line portion = 18.08 CKM	Telangana Andhra
	(b) LILO of Chillakallu to Narketpally – II at Pulichintala SS	05.12.2018		New LILO Portion = 48.70 CKM	Pradesh
22.	132 KV Chillakallu-Ramapuram	21.10.1982	Asset – XXII	6.67	8
23.	132 KV Kamavarapu Kota - Aswaraopet – I	09.06.1982	Asset – XXIII	5.50	
24.	132 KV Kamavarapu Kota - Aswaraopet – II	09.06.1982	Asset – XXIV	5.50	
25.	132 KV Nagarjunasagar–RCPH	25.02.1983	Asset - XXV	7.70	
26.	132 KV Chillakallu-Kusumanchi	24.12.1985	Asset – XXVI	47.00	
27.	132 KV Chillakallu–Bonakallu - I	20.01.1987	Asset - XXVII	2.80	
28.	132 KV Chillakallu–Bonakallu - II	20.01.1987	Asset - XXVIII	2.80	

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	132 KV A.P.Carbides-Alampur - I	17.05.2004		Total TS Portion including LILO = 5.86 CKM		
29.	(a) 132 KV A.P. Carbides - Alampur – I (part of old line 132 KV A.P. Carbides - Wanaparthy)	20.01.1987	Asset - XXIX	portion of Old Line = 4.66 CKM		
	(b) LILO of A.P.Carbides to Wanaparthy at Alampur SS	17.05.2004		New LILO Portion = 1.2 CKM		
30.	132 KV Chillakallu - Madhira	27.10.2001	Asset – XXX	7.00		
31.	132 KV Chillakallu - Khammam	02.12.2001	Asset - XXXI	35.00		
32.	132 KV Chillakallu - Sitapuram	06.04.2004	Asset - XXXII	2.50		
33.	132 KV Chillakallu - Kodada	10.06.2004	Asset - XXXIII	9.84		
34.	132 KV Sitapuram - KCP	10.05.2010	Asset - XXXIV	0.37		
35.	132 KV Tangeda - Wadapalli	26.08.2010	Asset - XXXV	2.36	Telangana	
36.	132 KV Piduguralla – Wadapalli	22.02.2014	Asset - XXXVI	2.36	Andhra Pradesh	
	132 KV A.P.Carbides - Alampur - II	06.09.2014		Total TS Portion including LILO = 5.86 CKM	Frauesii	
37.	(a) 132 KV A.P.Carbides - Alampur – II (part of old line 132 KV A.P.Carbides - Gadwal)	13.01.2000	Asset – XXXVII	portion of Old Line = 4.66 CKM		
	(b) LILO of A.P.Carbides to Gadwal at Alampur SS	06.09.2014		New LILO Portion = 1.2 CKM		
38.	400 KV Uravakonda - Veltoor - I	17.11.2016	Asset – XXXVIII	73.50	9,	
39.	400 KV Uravakonda - Veltoor - II	18.11.2016	Asset - XXXIX	73.50		
40.	400 KV Suryapeta - Kamavarapu Kota - I	20.10.2016	Asset – XXXX	86.40		
41.	400 KV Suryapeta - Kamavarapu Kota - II	20.10.2016	Asset - XXXXI	86.40		

The inter-State transmission lines for FY 2019-20 to FY 2023-24 consists of 41 assets i.e., all assets from Asset-I to Asset-XXXXI as shown in the above table.

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7. It is submitted that this Hon'ble Commission vide its order dated 14.03.2012 in Petition No. 15/SM/2012 passed the following directions:

"6. As a first step towards inclusion of non-ISTS lines in the POC transmission charges, the Commission proposes to include the transmission lines connecting two States, for computation of POC transmission charges and losses. However, for the disbursement of transmission charges, tariff for such assets needs to be approved by the Commission in accordance with the provisions of Sharing Regulations. Accordingly, we direct the owners of these Inter-State lines to file appropriate application before the Commission for determination of tariff for facilitating disbursement."

- 8. This Hon'ble Commission further vide its order dated 05.09.2018 in Petition No. 07/SM/2017 directed the state utilities to file tariff petitions for determination of tariff for inclusion in the computation of Point of Connection Transmission Charges for FY 2017-18 and FY 2018-19.
- Accordingly, TSTRANSCO had filed Petition No. 2/TT/2019 before this Hon'ble Commission to include 38 Nos. ISTS Assets between Telangana and Andhra Pradesh for which this Hon'ble Commission determined Annual Transmission Charges (ATC) for FY 2016-17 vide its order dated 13.02.2020.
- 10. Further, a petition (Diary No. 721/2020) was also filed by the Petitioner before this Hon'ble Commission on 24.09.2020 for determination of ATC for the period from FY 2014-15 to FY 2018-19 for 41 Nos. ISTS Assets (i.e., 40 Nos. Assets between Telangana and Andhra Pradesh and 1 No. Asset between Telangana and Karnataka). The said petition is pending consideration before this Hon'ble Commission.
- The present Petition is being filed for determination of tariff for 41
 Nos. of ISTS Assets (i.e., 40 Nos. Assets between Telangana and Andhra

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Pradesh and 1 No. Asset between Telangana and Karnataka) for the block period from FY 2019-20 to FY 2023-24.

12. The followings are the summarized details of Year-Wise Transmission Charges for Asset-I to Asset-XXXVII:

(I) CAPITAL COST:

(a) Capital Cost for the Assets I to XXXVII (excluding LILO portion)

The individual capital cost details for these 37 lines are not available. Hence, the capital cost is considered in line with methodology prescribed by this Hon'ble Commission. The benchmark cost is taken same as in this Hon'ble Commission's order dated 21.06.2018 passed in Petition No.237/TT/2016 for tariff calculation for FY 2016-17. The relevant portion of the order is quoted as below:

"14. Some of the State Utilities have filed similar petitions claiming tariff of interstate transmission lines connecting two States for the 2014-19 tariff periods as per the directions of the Commission. The information submitted by the State Utilities is incomplete and inconsistent. Further, some of the lines were more than 25 years old and the States were not having the details of the capital cost etc. To overcome these difficulties, the Commission evolved a methodology for allowing transmission charges for such transmission lines connecting two States in orders dated 19.12.2017 in Petition Nos. 88/TT/2017, 173/TT/2016 and 168/TT/2016 filed by Madhya Pradesh Power Transmission Corporation Limited, Maharashtra State Electricity Regulatory Commission and Uttar Pradesh Power Transmission Corporation Limited respectively. The Commission adopted the same methodology in order dated 4.5.2018 in Petition No.112/TT/2017, while granting tariff for ISTS connecting Rajasthan with other States and owned by Rajasthan Rajya Vidyut Prasaran Limited. The Commission derived the benchmark cost on the basis of the transmission lines owned by PGCIL. The useful life of the transmission line was considered as 25 years and for lines more than or equal to 25 years, only 0 & M Expenses and Interest on Working Capital (IWC) is decided to be allowed as per the existing Tariff Regulations. For assets put into commercial operation of

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after 1.4.2014, tariff is decided to be allowed on the basis of the audited financial capital cost. The relevant portion of the order dated 4.5.2018 is extracted hereunder:-

"13. It is observed that the information submitted by the petitioner States for computation of transmission charges for the deemed ISTS lines are not uniform, thereby causing divergence in working out the tariff. In some cases, the data related to funding and depreciation was not available and in some cases the assets have already completed, or nearing, their useful life. In most of the petitions, the states have expressed their inability to furnish the audited capital cost of transmission lines as the lines are old. As a result, tariff workings for old assets are ending in skewed results. It is further observed that the YTC figures emerging out by the existing ARR methodology are on the higher side. Considering these facts, we have conceptualized a modified methodology for determining the tariff of the inter-State transmission lines. The methodology is broadly based on the following:-

- (a) PGCIL's Annual Report data has been used as the reference data; based on which, year wise benchmark cost has been derived.
- (b) Useful life of Transmission Line has been considered as 25 years. Thus, if life is more than or equal to 25 years as on 1.4.2014, only O&M Expenses and Interest on Working Capital (IWC) shall be allowed as per the existing Tariff Regulations, in lieu of complete tariff.
- (c) It is expected that the States do have the audited financial data of recently commissioned (i.e., on or after 1.4.2014) lines.

Tariff Methodology

14. As per the petitions filed by the states, their ISTS lines generally have the configuration of 132KV, 220KV or 400KV. In the absence of an established tariff data base, in order to develop this methodology Annual Reports of PGCIL from 1989-90 to 2013-14 have been referred to. The Annual Reports depict, inter alia, the information pertaining to year wise total transmission line's length in ckt-km and corresponding Gross block. This pan India data represents all the five transmission regions and is a composite mix of parameters like terrains, wild-zones, tower and conductor type etc.+/- 500KV HVDC and 765 KV & above voltage level AC lines too have come up

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in between and the data also includes those lines. Voltage level wise data as on 30th April 2017, obtained from PGCIL indicates that the percentage of 220KV,132KV and 66KV TL taken together makes it around 8.3% of the total line length owned by PGCIL. Further, 132KV TLs were established in NER prior to 1990, and Transmission lines of 220KV Voltage levels were last commissioned in around the year 2004 in NR. Majority of the Transmission lines consists of 400KV which corresponds to 66% of the total transmission line lengths. Thus, the 400KV and lesser voltage levels account for approximately 75% of the Transmission lines. Assuming the above referred spread of voltage wise percentage of earlier years too, it can be said that the year wise average TL cost figures derived from PGCIL data, when further reduced by 25% fairly represent the average transmission line capital cost corresponding to a 400KV S/C line. Considering the 400KV S/C transmission line cost as reference cost, Analysis of PGCIL's indicative cost data (P/L Feb 2017) Suggests the following:

	Reference cost of 400KV S/C TL	Rs X lakh/km
1	400KV D/C TL	1.39 X
2	220KV D/C TL	0.57 X
3	220KV S/C TL	0.36 X
4	132KV D/C TL	0.43 X
5	132KV S/C TL	0.31 X

15. Therefore, for arriving the costs of transmission lines of other voltage levels and circuit configurations, the average TL cost data shall be multiplied by the factors illustrated in the above table. Lower voltage levels can be treated as part of 132KV. The above table contemplates Twin Moose conductor which is widely used in states transmission lines."

Accordingly, the capital cost for the 37 assets (excluding 6 LILO Assets and New Assets shown in the table under (b) below) is considered as per the CERC Normalization Guidelines, and is detailed as below:

Asset No.	Asset Name	Rationalized Cost	Length (km)	Multiplication Factor	Gross Value asset
Asset I	400 KV Srisailam - Kurnool (SC)	54.57	1.50	1	81.86

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Asset	400 KV Kalapaka-Asupaka (Main Line portion of Kalpaka – Khammam – I after LILO)	34	8.50	1	289.00
11 & 111	400 KV Kalapaka-Khammam -II	34	121.00	1	4114.00
Asset IV & V	400 KV VTPS-Suryapet - I &II (Main line portion of VTPS- Malkaram I & II after LILO)	94.67	54.66	1.39	7,192.78
Asset VI & VII	400 KV Srisailam - Sattenapalli Ckt I & II	20.71	0.40	1.39	11.51
Asset VIII	220 KV Lower Sileru - KTPS - I	0	81.00	0.36	
Asset IX	220 KV Lower Sileru - KTPS - II	0	25.00	0.36	-
Asset X & XI	220 KV Srisailam - Dindi - I & II	0	80.00	0.57	
Asset XII	220 KV Tallapalli - Nagarjunasagar - III	0	4.00	0.36	-
Asset XIII & XIV	220 KV Tallapalli – Nagarjunasagar - I &II	0	2.10	0.57	-
Asset XV	220 KV N'Sagar Receiving Station - Srisailam (SC) Line	0	4.00	0.36	8-
Asset XVI	220 KV Nunna - KTPS	0	64.45	0.36	
Asset XVII	220 kV Tandur - Sedam	54.57	33.60	0.36	660.08
Asset XVIII	220 KV Tallapalli - Chalakurthy	47.04	27.40	0.36	464.00
Asset XIX	220 KV Brahmnakotkur (LIS) - Wanaparthy	48.44	78.79	0.36	1,373.97
Asset XX & XXI	220 KV Chillakallu-Suryapet (Main line portion of Chillakallu - Narketpally - I after LILO)	20.71	38.62	0.36	287.94
	220kV Chillakallu – Pulichintala (Main Line portion of Chillakallu – Narketpally - II after LILO)	20.71	18.08	0.36	134.80
Asset XXII	132 KV Chillakallu - Ramapuram	0	6.67	0.43	-
Asset XXIII & XXIV	132 KV Kamavarapu Kota - Aswaraopet - I &II	0	5.50	0.43	- 10
Asset XXV	132 KV Nagarjunasagar - RCPH	0	7.70	0.31	-
Asset XXVI	132 KV Chillakallu - Kusumanchi	0	47.00	0.43	-
Asset XXVII & XXVIII	132 KV Chillakallu - Bonakallu - I &II	0	2.80	0.43	
Asset XXIX	132 KV A.P.Carbides - Alampur -I (Main Line Portion)	0	4.66	0.31	
	132 KV A.P.Carbides - Alampur - I (LILO Line Portion)	27.2	1.20	0.31	10.12
Asset XXX	132 KV Chillakallu - Madhira	44.28	7.00	0.31	96.09

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Asset XXXI	132 KV Chillakallu - Khammam	44.28	35.00	0.43	666.41
Asset XXXII	132 KV Chillakallu - Sitapuram	27.2	2.50	0.43	29.24
Asset XXXIII	132 KV Chillakallu - Kodada	27.2	9.84	0.31	82.97
Asset XXXIV	132 KV Sitapuram - KCP	52.26	0.37	0.31	5.99
Asset XXXV	132 KV Tangeda - Wadapalli	52.26	2.36	0.31	38.23
Asset XXXVI	132 KV Piduguralla – Wadapalli	94.67	2.36	0.31	69.26
Asset XXXVII	132 KV A.P.Carbides – Gadwal (Main line of 132 kv AP Carbides – Alampur -II)	0	4.66	0.31	

Copies of the YTC Forms for Asset-I to Asset-XXXVII are enclosed herewith and marked as **Annexure B.** The YTC computations are shown in paragraph 14, at page no. 35 onwards.

(b) The following is the audited capital cost of 6 LILO Assets and New Assets (Nos. XXXVIII to XXXXI):

(Rs. in lakhs) Capital Cost Capital IDC till Cost as on Asset Type Asset (excl. IDC) COD as on COD COD LILO portion of 400 KV Kalpaka - Asupaka 2910.41 341.44 3251.85 Asset-II LILO portion of 400KV VTPS- Suryapet- I & 559.55 65.65 625.20 Asset-IV & V LILO portion of 220 KV Srisailam -19.82 2.45 22.27 Asset-XI Domalapenta line LILO portion of 220 KV Chillakallu -698.19 81.91 780.10 Asset-XX Suryapeta 220 KV Chillakallu -LILO portion of 3555.77 417.16 3972.93 Asset-XXI Pulichintala 132 KV A.P. Carbides -LILO portion of 159.52 18.71 178.23 Asset-XXXVII Alampur - II Asset-XXXVIII 400 KV Veltoor -16830.59 1974.54 18805.13 & XXXXIX Uravakonda I & II Asset-XXXX & 400 KV Suryapeta - KV Kota 20520.08 2407.38 22927.46 XXXXI 11 & 11

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The copies of the Tariff Forms for the LILO Assets are enclosed herewith and are collectively marked as **Annexure C**, and the copies of the Tariff Forms, Administrative Approvals and Loan Sanctions for the New Assets (Nos. XXXVIII to XXXXI) are enclosed herewith and are collectively marked as **Annexure D**. The above expenditure is in line with the audit certificates enclosed.

(II) ADDITIONAL CAPITAL COST:

The followings are the details of additional expenditure incurred after COD and these expenses are towards transfers/adjustments carried out after COD. The said additional expenditure qualifies as additional Capital Expenditure as per CERC (Terms and Conditions of Tariff) Regulations, 2019.

i) 400 KV Kalpaka - Asupaka (LILO portion of Asset-II):

(Rs. in lakhs)

Capital Cost as		Additiona	l Capital Ex	penditure		Capital Cost as
on COD	2019-20	2020-21	2021-22	2022-23	2023-24	on 31.03.2024
3251.85					- 2	3262.44*

^(*) Additional cost of Rs. 10.59 lakhs incurred in FY 2018-19.

ii) 400 KV VTPS- Survapet - I & II (LILO portion of Assets-IV & V):

(Rs. in lakhs)

Capital Cost as		Capital Cost as				
on COD	2019-20	2020-21	2021-22	2022-23	2023-24	on 31.03.2024
625.20		590	-	-		625.20

iii) 220 KV Srisailam - Domalapenta line (LILO portion of Asset-XI):

(Rs. in lakhs)

Capital Cost as		Additiona	al Capital Ex	penditure		Capital Cost as
on COD 2019-2	2019-20	2020-21	2021-22	2022-23	2023-24	on 31.03.2024
22.27		8.15		- 8		30.41

Chief Engineer/Commi & RAC T3 TRANSCO, Vidyut Soudha, Hydrrabad - 500 082,



iv) 220 KV Chillakallu - Suryapet (LILO portion of Asset-XX):

(Rs. in lakhs)

Capital Cost as		Capital Cost as				
on COD	2019-20	2020-21	2021-22	2022-23	2023-24	on 31.03.2024
780.10	-		*	-		833.47*

^(*) Additional cost of Rs. 53.37 lakhs incurred in FY 2017-18.

v) 220 KV Chillakallu - Pulichintala (LILO portion of Asset-XXI):

(Rs. in lakhs)

Capital Cost as		Capital Cost as				
on COD 201	2019-20	2020-21	2021-22	2022-23	2023-24	on 31.03.2024
3972.93	107.59	-		-	-	4,080.52

vi) 132 KV A.P.Carbides - Alampur - II (LILO portion of Asset-XXXVII):

(Rs. in lakhs)

Capital Cost as		Capital Cost as				
on COD	2019-20	2020-21	2021-22	2022-23	2023-24	on 31.03.2024
178.23	-	-	-	-	-	180.35*

^(*) Additional cost of Rs. 2.12 lakhs incurred in FY 2015-16.

vii) 400 KV Veltoor - Uravakonda - I & II (Assets-XXXVIII & XXXIX):

(Rs. in lakhs)

Capital Cost as		Additional Capital Expenditure						
on COD 2	2019-20	2020-21	2021-22	2022-23	2023-24	on 31.03.2024		
18805.13	-			-	-	18,805.13		

viii) 400 KV Suryapeta - KV Kota - I & II (Assets-XXXX & XXXXI):

(Rs. in lakhs)

Capital Cost as		Capital Cost as				
on COD	2019-20	2020-21	2021-22	2022-23	2023-24	on 31.03.2024
22,927.46	2	141	121	2	- 2	22,927.46

(III) DEPRECIATION:

In line with the CERC Tariff Regulations, 2019, the assets are depreciated up to 90% of the capital cost, leaving 10% being the salvage value of the asset. For the assets commissioned before 2014, for which the audited capital costs are not available, the rate of

Chief Engineer/Tommi & RAC TSTHANISCO, Vidynt Soodha, NFWdershad - 500 082.

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depreciation is considered @5.28% till 12 years and @2.05% beyond that till 25 years of life of the asset. For the assets commissioned after 2014, the rate of depreciation is considered @5.28%. Further, Normative loan repayment during a year shall be deemed to be equal to the depreciation allowed for that year.

(a) For Asset-I to Asset-XXXVII (excluding 6 LILO Assets and New Assets):

The Asset-wise calculation of depreciation for Asset-I to Asset-XXXVII is shown in the above Annexure B.

(b) The following are the calculations for depreciation for 6 LILO Assets and New Assets (Nos. XXXVIII to XXXXI):

i) 400 KV Kalpaka - Asupaka (LILO portion of Asset-II):

Rs. in lakhs) Particulars 2019-20 2022-23 2023-24 2020-21 2021-22 Opening Capital Cost 3.262.44 3.262.44 3,262,44 3,262,44 3,262.44 Additional Capitalisation Closing Capital Cost 3,262.44 3,262.44 3,262.44 3,262.44 3,262.44 Average Capital Cost 3,262.44 3,262,44 3,262,44 3,262,44 3,262.44 Rate of depreciation 5.28% 5.28% 5.28% 5.28% 5.28% Depreciable value 2936.20 2936.20 2936.20 2936.20 2936.20 Depreciation 172.26 172.26 172.26 172.26 172.26 Cumulative 626.57 971.08 depreciation at the 454.31 798.82 1.143.34 end of the period

ii) 400 KV VTPS- Survapet- I & II (LILO portion of Assets-IV & V):

Rs. in lakhs) Particulars 2019-20 2020-21 2021-22 2023-24 2022-23 Opening Capital Cost 625.20 625.20 625.20 625.20 625.20 Additional Capitalisation Closing Capital Cost 625.20 625.20 625.20 625.20 625.20

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Average Capital Cost	625.20	625.20	625.20	625.20	625.20
Rate of depreciation	5.28%	5.28%	5.28%	5.28%	5.28%
Depreciable value	562.68	562.68	562.68	562.68	562.68
Depreciation	33.01	33.01	33.01	33.01	33.01
Cumulative depreciation at the end of the period	132.22	165.23	198.24	231.25	264.27

iii) 220 KV Srisailam - Domalapenta line (LILO portion of Asset-XI):

Particulars	2019-20	2020-21	2021-22	2022-23	(Rs. in lakhs
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Capital Cost	22.27	22.27	30.41	30.41	30.41
Additional Capitalisation		8.15		-	
Closing Capital Cost	22.27	30.41	30.41	30.41	30.41
Average Capital Cost	22.27	26.34	30.41	30.41	30.41
Rate of depreciation	5.28%	5.28%	5.28%	5.28%	5.28%
Depreciable value	20.04	27.37	27.37	27.37	27.37
Depreciation	1.12	1.39	1.61	1.61	1.61
Cumulative depreciation at the end of the period	1.12	2.51	4.12	5.72	7.33

iv) 220 KV Chillakallu - Suryapeta (LILO portion of Asset-XX):

					(Rs. in lakhs
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Capital Cost	833.47	833.47	833.47	833.47	833.47
Additional Capitalisation			E.54	2	
Closing Capital Cost	833.47	833.47	833.47	833.47	833.47
Average Capital Cost	833.47	833.47	833.47	833.47	833.47
Rate of depreciation	5.28%	5.28%	5.28%	5.28%	5.28%
Depreciable value	750.12	750.12	750.12	750.12	750,12
Depreciation	44.01	44.01	44.01	44.01	44.01
Cumulative depreciation at the end of the period	142.01	186.02	230.02	274.03	318.04

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v) 220 KV Chillakallu - Pulichintala (LILO portion of Asset-XXI):

Rs. in lakhs) Particulars 2019-20 2020-21 2021-22 2022-23 2023-24 Opening Capital Cost 3,972.93 4,080.52 4,080.52 4,080.52 4,080.52 Additional Capitalisation 107.59 Closing Capital Cost 4,080.52 4,080.52 4,080.52 4,080.52 4,080.52 Average Capital Cost 4,026.73 4,080.52 4,080.52 4,080.52 4,080.52 Rate of depreciation 5.28% 5.28% 5.28% 5.28% 5.28% Depreciable value 3,672.47 3,672.47 3,672.47 3,672.47 3,672.47 Depreciation 212.61 215.45 215.45 215.45 215.45 Cumulative depreciation at the 279.85 495.30 710.76 926.21 1,141.66 end of the period

vi) 132 KV A.P.Carbides - Alampur - II (LILO portion of Asset-XXXVII):

(Rs. in lakhs) Particulars 2019-20 2020-21 2021-22 2022-23 2023-24 Opening Capital Cost 180.35 180.35 180.35 180.35 180.35 Additional Capitalisation Closing Capital Cost 180.35 180.35 180.35 180.35 180.35 Average Capital Cost 180.35 180.35 180.35 180.35 180.35 Rate of depreciation 5.28% 5.28% 5.28% 5.28% 5.28% Depreciable value 162.31 162.31 162.31 162.31 162.31 Depreciation 9.52 9.52 9.52 9.52 9.52 Cumulative depreciation at the 52.89 62.41 71.94 81.46 90.98 end of the period

vii) 400 KV Veltoor - Uravakonda - I & II (Assets-XXXVIII & XXXIX):

(Rs. in lakhs) Particulars 2019-20 2020-21 2021-22 2022-23 2023-24 Opening Capital Cost 18,805.13 18,805.13 18,805.13 18,805.13 18,805.13 Additional Capitalisation Closing Capital Cost 18.805.13 4 18.805.13 18,805.13 18,805.13 18,805.13

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Average Capital Cost	18,805.13	18,805.13	18,805.13	18,805.13	18,805.13
Rate of depreciation	5.28%	5.28%	5.28%	5.28%	5.28%
Depreciable value	16,924.62	16,924.62	16,924.62	16,924.62	16,924.62
Depreciation	992.91	992.91	992.91	992.91	992.91
Cumulative depreciation at the end of the period	3,363.97	4,356.88	5,349.79	6,342.70	7,335.61

viii) 400 KV Suryapeta - KV Kota - I & II (Assets-XXXX & XXXXI):

					(Rs. in lakhs
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Capital Cost	22,927.46	22,927.46	22,927.46	22,927.46	22,927.46
Additional Capitalisation	-	(2)	343	(a)	
Closing Capital Cost	22,927.46	22,927.46	22,927.46	22,927.46	22,927.46
Average Capital Cost	22,927.46	22,927.46	22,927.46	22,927.46	22,927.46
Rate of depreciation	5.28%	5.28%	5.28%	5.28%	5.28%
Depreciable value	20,634.72	20,634.72	20,634.72	20,634.72	20,634.72
Depreciation	1,210.57	1,210.57	1,210.57	1,210.57	1,210.57
Cumulative depreciation at the end of the period	4,172.32	5,382.89	6,593.46	7,804.03	9,014.60

(IV) DEBT-EQUITY RATIO:

The Debt-Equity Ratio for all assets is considered in the normative debt-equity ratio of 70:30.

(V) INTEREST ON TERM LOANS:

(a) Asset-I to Asset-XXXVII (excluding 6 LILO Assets and New Assets):

The rate of interest for all the assets has been considered from the weighted average rate of loan for the Petitioner as a whole, as the details of individual line-wise breakup details of interest rates are not available. The year-wise interest rates considered are as follows:

TSTRANSOO, Vayut Sougha.

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Rate of Interest on Loan	11.00%	11.00%	11.00%	11.00%	11.00%

The detailed calculations for interest on loan are shown in Annexure B.

(b) The following are details of asset-wise Interest on Loans claimed in the tariff calculations for 6 LILO Assets and New Assets (Nos. XXXVIII to XXXXI):

i) 400 KV Kalpaka - Asupaka (LILO portion of Asset-II):

(Rs. in lakhs)

			Vice and the second		(PCS. III TOKIIS
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Gross loan - Opening	2,283.71	2,283.71	2,283.71	2,283.71	2,283.71
Cumulative repayment of Normative Loan up to previous year	282.05	454.31	626.57	798.82	971.08
Net Normative loan - Opening	2,001.66	1,829.40	1,657.14	1,484.89	1,312.63
Increase/Decrease due to ACE/de-capitalisation during the year		-	-	241	
Less: Repayment of Loans during the year	172.26	172.26	172.26	172.26	172,26
Net Normative loan - Closing	1,829.49	1,657.14	1,484.89	1,312.63	1,140.37
Average Normative Loan	1,915.53	1,743.27	1,571.01	1,398.76	1,226.50
Rate of Interest of actual loans	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on Normative loan	210.71	191.76	172.81	153.86	134.92

ii) 400KV VTPS - Survapet - I & II (LILO portion of Assets-IV & V):

(De in labbe)

					(Rs. in lakhs
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Gross Ioan – Opening	437.64	437.64	437.64	437.64	437.64
Cumulative repayment of Normative Loan up to previous year	99.21	132.22	165.23	198.24	231.25
Net Normative loan - Opening	338.43	305.42	272.41	239.40	206.39
Increase/Decrease due to ACE/de-capitalisation during the year			-67	O TAR	

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Average Normative Loan Rate of Interest of actual loans	321.92 11.00%	288.91 11.00%	255.90 11.00%	222.89 11.00%	189.88 11.00%
Net Normative loan - Closing	305.42	272.41	239.40	206.39	173.37
Less: Repayment of Loans during the year	33.01	33.01	33.01	33.01	33.01

iii) 220 KV Srisailam - Domalapenta line (LILO portion of Asset-XI):

(Rs. in lakhs) 2021-22 2023-24 Particulars 2019-20 2020-21 2022-23 21.29 15.59 15.59 21.29 21.29 Gross loan - Opening Cumulative repayment of 1.12 2.51 4.12 5.72 Normative Loan up to previous year 15.59 14.46 18.78 17.17 15.56 Net Normative loan - Opening Increase/Decrease due to 5.70 ACE/de-capitalisation during the year Less: Repayment of Loans 1.12 1.39 1.61 1.61 1.61 during the year 17.17 15.56 14.46 18.78 13.96 Net Normative loan - Closing 15.03 16.62 17.97 16.37 14.76 Average Normative Loan 11.00% 11.00% 11.00% 11.00% 11.00% Rate of Interest of actual loans 1.58 1.83 1.98 1.80 1.62 Interest on Normative loan

iv) 220 KV Chillakallu - Suryapet (LILO portion of Asset-XX):

(Rs. in lakhs) 2019-20 2020-21 2021-22 2022-23 2023-24 Particulars 583.43 583.43 583.43 583.43 583.43 Gross loan - Opening Cumulative repayment of 98.00 142.01 186.02 230.02 274.03 Normative Loan up to previous year 309.40 485.43 441.42 397.41 353.40 Net Normative loan - Opening Increase/Decrease due to ACE/de-capitalisation during the year Less: Repayment of Loans 44.01 44.01 44.01 44.01 44.01 during the year 353.40 309.40 265.39 441.42 397.41 Net Normative loan - Closing 375.41 331.40 463.42 419.42 Average Normative Loan

> Chief Engineer/Commit & RAG TSTF(ANSOLD, Vidyut Sougha, Ansonabar - 500 082,

Rate of Interest of actual loans	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on Normative Ioan	50.98	46.14	41.29	36.45	31.61

v) 220 KV Chillakallu - Pulichintala (LILO portion of Asset-XXI):

(Rs. in lakhs)

					{Rs. in lakhs
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Gross loan - Opening	2,781.05	2,856.37	2,856.37	2,856.37	2,856.37
Cumulative repayment of Normative Loan up to previous year	67.24	279.85	495.30	710.76	926.21
Net Normative loan - Opening	2,713.81	2,576.51	2,361.06	2,145.61	1,930.16
Increase/Decrease due to ACE/de-capitalisation during the year	75.31			1	
Less: Repayment of Loans during the year	212.61	215.45	215.45	215.45	215.45
Net Normative loan - Closing	2,576.51	2,361.06	2,145.61	1,930.16	1,714.71
Average Normative Loan	2,645.16	2,468.79	2,253.34	2,037.88	1,822.43
Rate of Interest of actual loans	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on Normative loan	290.97	271.57	247.87	224.17	200.47

vi) 132 KV A.P.Carbides - Alampur - II (LILO portion of Asset-XXXVII):

(Re in lakhe)

					(Rs. in lakhs
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Gross loan - Opening	126.24	126.24	126.24	126.24	126.24
Cumulative repayment of Normative Loan up to previous year	43.37	52.89	62.41	71.94	81.46
Net Normative loan - Opening	82.87	73.35	63.83	54.31	44.78
Increase/Decrease due to ACE/de-capitalisation during the year	-		-		-
Less: Repayment of Loans during the year	9.52	9.52	9.52	9.52	9.52
Net Normative loan - Closing	73.35	63.83	54.31	44.78	35.26
Average Normative Loan	78.11	68.59	59.07	49.54	40.02
Rate of Interest of actual loans	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on Normative loan	8.59	7.54	6.50	5.45	4.40

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vii) 400KV Veltoor - Uravakonda - I & II (Assets-XXXVIII & XXXIX):

(Rs. in lakhs)

					LES. IN TAKES
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Gross loan - Opening	13,163.59	13,163.59	13,163.59	13,163.59	13,163.59
Cumulative repayment of Normative Loan up to previous year	2,371.06	3,363.97	4,356.88	5,349.79	6,342.70
Net Normative loan - Opening	10,792.53	9,799.62	8,806.71	7,813.80	6,820.89
Increase/Decrease due to ACE/de-capitalisation during the year			-	(*)	-1
Less: Repayment of Loans during the year	992.91	992.91	992.91	992.91	992.91
Net Normative loan - Closing	9,799.62	8,806.71	7,813.80	6,820.89	5,827.98
Average Normative Loan	10,296.08	9,303.17	8,310.26	7,317.35	6,324.43
Rate of Interest of actual loans	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on Normative Ioan	1,132.57	1,023.35	914.13	804.91	695.69

viii) 400KV Suryapeta - KV Kota - I & II (Assets-XXXX & XXXXI):

(Rs. in lakhs)

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					[RS. In lakns
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Gross loan - Opening	16,049.22	16,049.22	16,049.22	16,049.22	16,049.22
Cumulative repayment of Normative Loan up to previous year	2,961.75	4,172.32	5,382.89	6,593.46	7,804.03
Net Normative loan - Opening	13,087.47	11,876.90	10,666.33	9,455.76	8,245.19
Increase/Decrease due to ACE/de-capitalisation during the year	is .	•		-	-
Less: Repayment of Loans during the year	1,210.57	1,210.57	1,210.57	1,210.57	1,210.57
Net Normative loan - Closing	11,876.90	10,666.33	9,455.76	8,245.19	7,034.62
Average Normative Loan	12,482.19	11,271.62	10,061.05	8,850.48	7,639.91
Rate of Interest of actual loans	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on Normative Ioan	1,373.04	1,239.88	1,106.72	973.55	840.39

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(VI) RETURN ON EQUITY (RoE):

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Clauses (1) and (2) of Regulation 30 and Clause (2) of Regulation 31 of the CERC Tariff Regulations, 2019 provide as under:

"30. Return on Equity:

- (1) Return on equity shall be computed in rupee terms, on the equity base determined in accordance with regulation 18.
- (2) Return on equity shall be computed at the base rate of 15.50% for thermal generating stations, transmission system including communication system..."

31. Tax on Return on Equity:

(2) Rate of return on equity shall be rounded off to three decimal places and shall be computed as per the formula given below:

Rate of pre-tax return on equity = Base rate /(1-t)

Where "t" is the effective tax rate in accordance with Clause (1) of this regulation and shall be calculated at the beginning of every financial year based on the estimated profit and tax to be paid estimated in line with the provisions of the relevant Finance Act applicable for that financial year to the company on pro-rata basis by excluding the income of non-generation or non-transmission business, as the case may be, and the corresponding tax thereon. In case of generating company or transmission licensee paying Minimum Alternate Tax (MAT), "t" shall be considered as MAT rate including surcharge and cess".

In line with the CERC Tariff Regulations, 2019, the RoE considered is as follows:

The Petitioner is a profit-making entity, the total tax rate (including surcharge and Education cess) for the tariff period 2019-24 is as below:

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Base Rate	30%	30%	30%	30%	30%
Surcharge	12%	12%	12%	12%	12%
Education cess	4%	4%	4%	4%	4%
Total Tax	34.944%	34.944%	34.944%	340Pt	14.944%

Chief Engineer/Commus 1996-TSTRANSCO, Volval Southa, Hyderahad - 500 082. The Return on Equity (RoE) is considered after grossing up with the tax rate.

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Return on Equity (%)	23.826%	23.826%	23.826%	23.826%	23.826%

(a) Return on Equity (RoE) for Asset-I to Asset-XXXVII:

The detailed calculations for RoE component are shown in the above Annexure B.

(b) Return on Equity (RoE) for 6 LILO Assets and New Assets (Nos. XXXVIII to XXXXI):

i) 400 KV Kalpaka - Asupaka (LILO portion of Asset-II):

(Rs. in lakhs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Equity as on COD/Admitted equity	978.73	978.73	978.73	978.73	978.73
Additional Capital made during the year	0.00	0.00	0.00	0.00	0.00
Closing Equity	978.73	978.73	978.73	978.73	978.73
Average Equity	978.73	978.73	978.73	978.73	978.73
Return on Equity (%)	15.50	15.50	15.50	15.50	15.50
Tax rate for respective year (%)	34.944	34.944	34.944	34.944	34.944
Rate of Return on Equity (%)	23.826	23.826	23.826	23.826	23.826
Return on Equity	233.19	233.19	233.19	233.19	233.19

ii) 400KV VTPS- Suryapet - I & II (LILO portion of Assets-IV & V):

(Rs. in lakhs)

					tris. in tukns
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Equity as on COD/Admitted equity	187.56	187.56	187.56	187.56	187.56
Additional Capital made during the year	0.00	0.00	0.00	0.00	0.00
Closing Equity	187.56	187.56	187.56	187.56	187.56
Average Equity	187.56	187.56	187.56	187.56	187.56
Return on Equity (%)	15.50	15.50	15.50	15,50	15.50
Tax rate for respective year	34.944	34.944	34.944	34.944	34.944
				100	-

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(%)					
Rate of Return on Equity (%)	23.826	23.826	23.826	23.826	23.826
Return on Equity	44.69	44.69	44.69	44.69	44.69

iii) 220 KV Srisailam - Domalapenta line (LILO portion of Asset-XI):

(Rs. in lakhs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24		
Equity as on COD/Admitted equity	6.68	6.68	9.12	9.12	9.12		
Additional Capital made during the year	0.00	2.44	0.00	0.00	0.00		
Closing Equity	6.68	9.12	9.12	9.12	9.12		
Average Equity	6.68	7.90	9.12	9.12	9.12		
Return on Equity (%)	15.50	15.50	15.50	15.50	15.50		
Tax rate for respective year (%)	34.94	34.94	34.94	34.94	34.94		
Rate of Return on Equity (%)	23.826	23.826	23.826	23.826	23.826		
Return on Equity	1.52	1.88	2.17	2.17	2.17		

iv) 220 KV Chillakallu - Suryapet (LILO portion of Asset-XX):

(Rs. in lakhs)

				[RS. In lakns
2019-20	2020-21	2021-22	2022-23	2023-24
250.04	250.04	250.04	250.04	250.04
0.00	0.00	0.00	0.00	0.00
250.04	250.04	250.04	250.04	250.04
250.04	250.04	250.04	250.04	250.04
15.50	15.50	15.50	15.50	15.50
34.944	34.944	34.944	34.944	34.944
23.826	23.826	23.826	23.826	23.826
59.57	59.57	59.57	59.57	59.57
	250.04 0.00 250.04 250.04 15.50 34.944 23.826	250.04 250.04 0.00 0.00 250.04 250.04 250.04 250.04 15.50 15.50 34.944 34.944 23.826 23.826	250.04 250.04 250.04 0.00 0.00 0.00 250.04 250.04 250.04 250.04 250.04 250.04 15.50 15.50 15.50 34.944 34.944 34.944 23.826 23.826 23.826	250.04 250.04 250.04 250.04 0.00 0.00 0.00 0.00 250.04 250.04 250.04 250.04 250.04 250.04 250.04 250.04 15.50 15.50 15.50 15.50 34.944 34.944 34.944 34.944 23.826 23.826 23.826 23.826

v) 220 KV Chillakallu - Pulichintala (LILO portion of Asset-XXI):

(Rs. in lakhs)

K MARASTINIA RAD GOMe No. 404 S. 15/22/2012 Wyderabad

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Equity as on COD/Admitted equity	1191.88	1224.16	1224.16	1224.16	1224.16
Additional Capital made during the year	32.28	0.00	0.00	0.00	0.00
Closing Equity	1224.16	1224.16	1224.16	1224.16	1224.16

Chief Enginee/Commt & FAId TSTRANGCO, Vidyut Sondha.

Return on Equity	287.82	291.66	291.66	291.66	291.66
Rate of Return on Equity (%)	23.826	23.826	23.826	23.826	23.826
Tax rate for respective year (%)	34.94	34.94	34.94	34.94	34.94
Return on Equity (%)	15.50	15.50	15.50	15.50	15.50
Average Equity	1208.02	1224.16	1224.16	1224.16	1224.16

vi) 132 KV A.P.Carbides - Alampur - II (LILO portion of Asset-XXXVII):

(Rs. in	From Facility on A
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Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Equity as on COD/Admitted equity	54.10	54.10	54.10	54.10	54.10
Additional Capital made during the year	0.00	0.00	0.00	0.00	0.00
Closing Equity	54.10	54.10	54.10	54.10	54.10
Average Equity	54.10	54.10	54.10	54.10	54.10
Return on Equity (%)	15.50	15.50	15.50	15.50	15.50
Tax rate for respective year (%)	34.944	34.944	34.944	34.944	34.944
Rate of Return on Equity (%)	23.826	23.826	23.826	23.826	23.826
Return on Equity	12.89	12.89	12.89	12.89	12.89

vii) 400KV Veltoor - Uravakonda - I & II (Assets-XXXVIII & XXXIX):

Rs. in lakhs)

No. of the contract of the con						
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24	
Equity as on COD/Admitted equity	5641.54	5641.54	5641.54	5641.54	5641.54	
Additional Capital made during the year	0.00	0.00	0.00	0.00	0.00	
Closing Equity	5641.54	5641.54	5641.54	5641.54	5641.54	
Average Equity	5641.54	5641.54	5641.54	5641.54	5641.54	
Return on Equity (%)	15.50	15.50	15.50	15.50	15.50	
Tax rate for respective year (%)	34.944	34.944	34.944	34.944	34.944	
Rate of Return on Equity (%)	23.826	23.826	23.826	23.826	23.826	
Return on Equity	1344.13	1344.13	1344.13	1344.13	1344.13	

viii) 400KV Suryapeta -KV Kota - I & II (Assets-XXXX & XXXXI):

(Rs. in lakhs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Equity as on COD/Admitted equity	6878.24	6878.24	6878.24	6878 24	6878.24

Chief Englisse / Compa & FAAG

MARASHIHARAO W COMENO.404 C.No.22/2012 Hyderabad

Return on Equity	1638.78	1638.78	1638.78	1638.78	1638.78
Rate of Return on Equity (%)	23.826	23.826	23.826	23.826	23.826
Tax rate for respective year (%)	34.944	34.944	34.944	34.944	34.944
Return on Equity (%)	15.50	15.50	15.50	15.50	15.50
Average Equity	6878.24	6878.24	6878.24	6878.24	6878.24
Closing Equity	6878.24	6878.24	6878.24	6878.24	6878.24
Additional Capital made during the year	0.00	0.00	0.00	0.00	0.00

(VII) O&M EXPENSES:

The O & M expenses are considered in line with the Clause 3(a) of Regulation 35 of the CERC Tariff Regulations, 2019 which specify the norms for O&M Expenses for the transmission system. In line with the principles of the CERC (Sharing of Inter-state Transmission Charges and Losses) Regulations, 2010 with amendments and the previous methodology adopted by this Hon'ble Commission in line with the order in Petition No. 213/TT/2013, the overall sub-station cost (the cost at both ends of the line) needs to be apportioned to the transmission line. The bay that is connected to the line can be directly identified with the line. Though there are multiple bays in the substation and the overall O&M per line would be more than O&M for the specific bay, at the minimal, the O&M of the bay that is connecting directly to the line is being apportioned to the line. This at the minimum ensures that a nominal O&M expenses of the sub-station is getting included in the PoC Mechanism.

(a) The O&M Expenses for Asset-I to Asset-XXXVII:

The O&M Expense for Asset-I to Asset-XXXVII (excluding 6 LILO Assets and New Assets) are calculated in line with norms for O&M Expenses and detailed calculations are shown in the above Annexure B.

(b) The following are the details of Asset-wise O&M expenses claimed for 6 LILO Assets and New Assets (Nos. XXXVIII to XXXXI):

Chief English with annual S. F./G. Tottle N. E. Co., Vidyor Soughan, GOIG, MI 434

i) 400 KV Kalpaka - Asupaka (LILO portion of Asset-II):

(Rs. in lakhs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A) Bay O&M Expenses:					
No. of Bays (Nos.)	1.000	1.000	1.000	1.000	1.000
Norm (Lakh/Bay)	32.15	33.28	34.45	35.66	36.91
O&M Expenses	32.15	33.28	34.45	35.66	36.91
B) Line O&M Expenses:					
Length (KMs)	17.00	17.00	17.00	17.00	17.00
Norm (Lakh/KM)	0.88	0.91	0.94	0.98	1.01
O&M Expenses	14.98	15.50	16.05	16.61	17.19
Total O&M Expenses (A+B)	47.13	48.78	50.50	52.27	54.10

ii) 400KV VTPS- Survapet - 1 & II (LILO portion of Assets-IV & V):

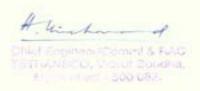
(Rs. in lakhs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A) Bay O&M Expenses:					
No. of Bays (Nos.)	2.000	2.000	2.000	2.000	2.000
Norm (Lakh/Bay)	32.15	33.28	34.45	35.66	36.91
O&M Expenses	64.30	66.56	68.90	71.32	73.82
B) Line O&M Expenses:				4-1	
Length (KMs)	2.30	2.30	2.30	2.30	2.30
Norm (Lakh/KM)	0.88	0.91	0.94	0.98	1.01
O&M Expenses	2.03	2.10	2.17	2.25	2.33
Total O&M Expenses (A+B)	66.33	68.66	71.07	73.57	76.15

iii) 220 KV Srisailam - Domalapenta line (LILO portion of Asset-XI):

(Rs. in lakhs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A) Bay O&M Expenses:					
No. of Bays (Nos.)	1.000	1.000	1.000	1.000	1.000
Norm (Lakh/Bay)	22.51	23.30	24.12	24.96	25.84
O&M Expenses	21.46	23.30	24.12	24.96	25.84
B) Line O&M Expenses:					
Length (KMs)	0.30	0.30	0.30	0.30	0.30
Norm (Lakh/KM)	0.38	0.39	0.40	0.42	0.43
O&M Expenses	0.07	0.07	0.08	0.08	0.08
Total O&M Expenses (A+B)	21.54	23.38	24.20	25.04	25.93





iv) 220 KV Chillakallu - Survapet (LILO portion of Asset-XX):

(Rs. in lakhs)

	1	T			is. III IUKIIS
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A) Bay O&M Expenses:					
No. of Bays (Nos.)	1.000	1.000	1.000	1.000	1.000
Norm (Lakh/Bay)	22.51	23.30	24.12	24.96	25.84
O&M Expenses	22.51	23.30	24.12	24.96	25.84
B) Line O&M Expenses:					
Length (KMs)	11.68	11.68	11.68	11.68	11.68
Norm (Lakh/KM)	0.38	0.39	0.40	0.42	0.43
O&M Expenses	4.40	4.57	4.72	4.89	5.06
Total O&M Expenses (A+B)	26.91	27.87	28.84	29.85	30.90

v) 220 KV Chillakallu - Pulichintala (LILO portion of Asset-XXI):

(Rs. in lakhs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A) Bay O&M Expenses:					
No. of Bays (Nos.)	1.000	1.000	1.000	1.000	1.000
Norm (Lakh/Bay)	22.51	23.30	24.12	24.96	25.84
O&M Expenses	22.51	23.30	24.12	24.96	25.84
B) Line O&M Expenses:					
Length (KMs)	48.70	48.70	48.70	48.70	48.70
Norm (Lakh/KM)	0.38	0.39	0.40	0.42	0.43
O&M Expenses	18.36	19.04	19.67	20.41	21.09
Total O&M Expenses (A+B)	40.87	42.34	43.79	45.37	46.93

vi) 132 KV A.P.Carbides - Alampur - II (LILO portion of Asset-XXXVII):

(Rs. in lakhs)

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Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A) Bay O&M Expenses:					
No. of Bays (Nos.)	1.000	1.000	1.000	1.000	1.000
Norm (Lakh/Bay)	16.08	16.64	17.23	17.83	18.46
O&M Expenses	16.08	16.64	17.23	17.83	18.46
B) Line O&M Expenses:					
Length (KMs)	1.20	1.20	1.20	1.20	1.20
Norm (Lakh/KM)	0.25	0.26	0.27	0.28	0.29
O&M Expenses	0.30	0.31	0.32	0.33	0.35
Total O&M Expenses (A+B)	16.38	16.95	17.55	18.16	18.81

A. W. A. Chief Engineer/Commit & RAG. TETHANESCO, Vidyal Soughe, Hartmood - 500 082.

vii) 400KV Veltoor - Uravakonda I & II (Assets-XXXVIII & XXXIX):

(Rs. in lakhs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A) Bay O&M Expenses:					
No. of Bays (Nos.)	2.000	2.000	2.000	2.000	2.000
Norm (Lakh/Bay)	32.15	33.28	34.45	35.66	36.91
O&M Expenses	64.30	66.56	68.90	71.32	73.82
B) Line O&M Expenses:					
Length (KMs)	73.50	73.50	73.50	73.50	73.50
Norm (Lakh/KM)	1.32	1.37	1.42	1.47	1.52
O&M Expenses	97.17	100.55	104.08	107.75	111.50
Total O&M Expenses (A+B)	161.47	167.11	172.98	179.07	185.32

viii) 400KV Suryapeta -KV Kota I & II (Assets-XXXX & XXXXI):

(Rs. in lakhs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A) Bay O&M Expenses:					
No. of Bays (Nos.)	2.000	2.000	2.000	2.000	2.000
Norm (Lakh/Bay)	32.15	33.28	34.45	35.66	36.91
O&M Expenses	64.30	66.56	68.90	71.32	73.82
B) Line O&M Expenses:					
Length (KMs)	86.40	86.40	86.40	86.40	86.40
Norm (Lakh/KM)	1.32	1.37	1.42	1.47	1.52
O&M Expenses	114.22	118.20	122.34	126.66	131.07
Total O&M Expenses (A+B)	178.52	184.76	191.24	197.98	204.89

(VIII) INTEREST ON WORKING CAPITAL:

In accordance with the Clause 1(c) of Regulation 34 of the CERC Tariff Regulations, 2019, the working capital is taken as the sum of Maintenance Spares (@15% of the yearly O&M Expenses), O&M Expenses for 1 month and Receivables (equivalent to 45 days transmission charges). The interest on working capital is considered @13.50% p.a. based on SBI base rate as on 01.04.2019.

(a) The details of Interest on working capital claimed for Asset-I to
Asset-XXXVII are shown in the above Annexure B.

Chief Engineer/Commt & RAC TSTRANSCO, Vidyut Souchs, Hydeniuse - 500 082. (b) The following are the details of asset-wise Interest on Working Capital for 6 LILO Assets and New Assets (Nos. XXXVIII to XXXXI):

i) 400 KV Kalpaka - Asupaka (LILO portion of Asset-II):

(Rs. in lakhs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
O&M Expenses	3.93	4.07	4.21	4.36	4.51
Maintenance Spares	7.07	7.32	7.57	7.84	8.11
Receivables	83.35	81.19	79.03	76.88	74.75
Total Working Capital	94.34	92.57	90.81	89.08	87.37
Rate of Interest	13.50%	13.50%	13.50%	13.50%	13.50%
Interest on Working Capital	12.74	12.50	12.26	12.03	11.79

ii) 400KV VTPS- Survapet- I & II (LILO portion of Assets-IV & V):

(Rs. in lakhs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24		
O&M Expenses	5.53	5.72	5.92	6.13	6.35		
Maintenance Spares	9.95	10.30	10.66	11.04	11.42		
Receivables	22.76	22.61	22.46	22,33	22.21		
Total Working Capital	38.24	38.63	39.05	39.50	39.98		
Rate of Interest	13.50%	13.50%	13.50%	13.50%	13.50%		
Interest on Working Capital	5.16	5.21	5.27	5.33	5.40		

iii) 220 KV Srisailam - Domalapenta line (LILO portion of Asset-XI):

(Rs. in lakhs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24		
O&M Expenses	1.85	1.95	2.02	2.09	2.16		
Maintenance Spares	3.33	3.51	3.63	3.76	3.89		
Receivables	3.47	3.66	3.85	3.94	4.03		
Total Working Capital	8.66	9.12	9.50	9.78	10.08		
Rate of Interest	13.50%	13.50%	13.50%	13.50%	13.50%		
Interest on Working Capital	1.11	1.23	1.28	1.32	1.36		

Chief Engineer/Commit & FIAL TSTHAND CO., Vidyul Soudne, Frynchiad - 500 082.

iv) 220 KV Chillakallu - Suryapet (LILO portion of Asset-XX):

(Rs. in lakhs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
O&M Expenses	2.24	2.32	2.40	2.49	2.57
Maintenance Spares	4.04	4.18	4.33	4.48	4.63
Receivables	22.86	22.37	21.89	21.42	20.95
Total Working Capital	29.14	28.88	28.62	28.38	28.16
Rate of Interest	13.50%	13.50%	13.50%	13.50%	13.50%
Interest on Working Capital	3.93	3.90	3.86	3.83	3.80

v) 220 KV Chillakallu - Pulichintala (LILO portion of Asset-XXI):

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
O&M Expenses	3.41	3.53	3.65	3.78	3.91
Maintenance Spares	6.13	6.35	6.57	6.80	7.04
Receivables	104.51	103.11	100.32	97.55	94.78
Total Working Capital	114.05	112.98	110.54	108.14	105.73
Rate of Interest	13.50%	13.50%	13.50%	13.50%	13.50%
Interest on Working Capital	15.40	15.25	14.92	14.60	14.27

vi) 132 KV A.P.Carbides - Alampur - II (LILO portion of Asset-XXXVII):

				(ks. in lakns
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
O&M Expenses	1.37	1.41	1.46	1.51	1.57
Maintenance Spares	2.46	2.54	2.63	2.72	2.82
Receivables	6.01	5.95	5.90	5.84	5.80
Total Working Capital	9.83	9.91	9.99	10.08	10.18
Rate of Interest	13.50%	13.50%	13.50%	13.50%	13.50%
Interest on Working Capital	1.33	1.34	1.35	1.36	1.37

vii) 400KV Veltoor - Uravakonda - I & II (Assets-XXXVIII & XXXIX):

(Rs. in lakhs)

2019-20	2020-21	2021-22	2022-23	2023-24			
13.46	13.93	14.41	14.92	15.44			
24.22	25.07	25.95	26.86	27.80			
455.88	442.92	429.98	417.08	404.19			
493.56	481.91	470.35	458.86	447.44			
13.50%	13.50%	13.50%	13.50%	13.50%			
66.63	65.06	63.50	61.95	60.40			
	13.46 24.22 455.88 493.56 13.50%	13.46 13.93 24.22 25.07 455.88 442.92 493.56 481.91 13.50% 13.50%	13.46 13.93 14.41 24.22 25.07 25.95 455.88 442.92 429.98 493.56 481.91 470.35 13.50% 13.50% 13.50%	13.46 13.93 14.41 14.92 24.22 25.07 25.95 26.86 455.88 442.92 429.98 417.08 493.56 481.91 470.35 458.86 13.50% 13.50% 13.50% 13.50%			

Crist Engineer/Commit & FusC TattransCO, Vidyut Soudha, Mysembad - 500 082;

viii) 400KV Suryapeta - KV Kota - I & II (Assets-XXXX & XXXXI):

(Rs. in lakhs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
O&M Expenses	14.88	15.40	15.94	16.50	17.07
Maintenance Spares	26.78	27.71	28.69	29.70	30.73
Receivables	552.47	536.58	520.72	504.90	489.10
Total Working Capital	594.12	579.69	565.35	551.10	536.91
Rate of Interest	13.50%	13.50%	13.50%	13.50%	13.50%
Interest on Working Capital	80.21	78.26	76.32	74.40	72.48

13. The followings are the summarized details of Year-Wise Transmission Charges for 6 LILO Assets and New Assets (Nos. XXXVIII to XXXXI):

i) 400 KV Kalpaka - Asupaka (LILO portion of Asset-II):

(Rs. in lakhs)

Total:	676.02	658.49	641.02	623.60	606.25
O&M Expenses	47.13	48.78	50.50	52.27	54.10
Interest on Working Capital	12.74	12.50	12.26	12.03	11.79
Return on Equity	233.19	233.19	233.19	233.19	233.19
Interest on Loan	210.71	191.76	172.81	153.86	134.92
Depreciation	172.26	172.26	172.26	172.26	172.26
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24

ii) 400KV VTPS- Survapet- I & II (LILO portion of Assets-IV & V):

(Rs. in lakhs)

Total:	184.60	183.35	182.19	181.12	180.13
O&M Expenses	66.33	68.66	71.07	73.57	76.15
Interest on Working Capital	5.16	5.21	5.27	5.33	5.40
Return on Equity	44.69	44.69	44.69	44.69	44.69
Interest on Loan	35.41	31.78	28.15	24.52	20.89
Depreciation	33.01	33.01	33.01	33.01	33.01
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24

iii) 220KV Srisailam - Domalapenta line (LILO portion of Asset-XI):

(Rs. in lakhs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	1.12	1.39	1.61	1.61	1.61
Interest on Loan	1.58	1.83	1.98	1.80	1.62
Return on Equity	1.52	1.88	2.17	2.17	2.17

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Interest on Working Capital	1.11	1.23	1.28	1.32	1.36
O&M Expenses	21.54	23.38	24.20	25.04	25.93
Total:	26.87	29.71	31.24	31.94	32.69

iv) 220 KV Chillakallu - Suryapet (LILO portion of Asset-XX):

(Rs.	122	lab.	hel
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Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	44.01	44.01	44.01	44.01	44.01
Interest on Loan	50.98	46.14	41.29	36.45	31.61
Return on Equity	59.57	59.57	59.57	59.57	59.57
Interest on Working Capital	3.93	3.90	3.86	3.83	3.80
O&M Expenses	26.91	27.87	28.84	29.85	30.90
Total:	185.40	181.48	177.58	173.72	169.89

v) 220 KV Chillakallu - Pulichintala (LILO portion of Asset-XXI):

(Rs. in lakhs

Total:	847.66	836.28	813.70	791.25	768.78
O&M Expenses	40.87	42.34	43.79	45.37	46.93
Interest on Working Capital	15.40	15.25	14.92	14.60	14.27
Return on Equity	287.82	291.66	291.66	291.66	291.66
Interest on Loan	290.97	271.57	247.87	224.17	200.47
Depreciation	212.61	215.45	215.45	215.45	215.45
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24

vi) 132 KV A.P.Carbides - Alampur - II (LILO portion of Asset-XXXVII):

(Rs. in lakhs)

			(1	Rs. in lakhs
2019-20	2020-21	2021-22	2022-23	2023-24
9.52	9.52	9.52	9.52	9.52
8.59	7.54	6.50	5.45	4.40
12.89	12.89	12.89	12.89	12.89
1.33	1.34	1.35	1.36	1.37
16.38	16.95	17.55	18.16	18.81
48.71	48.25	47.81	47.39	47.00
	9.52 8.59 12.89 1.33 16.38	9.52 9.52 8.59 7.54 12.89 12.89 1.33 1.34 16.38 16.95	9.52 9.52 9.52 8.59 7.54 6.50 12.89 12.89 12.89 1.33 1.34 1.35 16.38 16.95 17.55	2019-20 2020-21 2021-22 2022-23 9.52 9.52 9.52 9.52 8.59 7.54 6.50 5.45 12.89 12.89 12.89 12.89 1.33 1.34 1.35 1.36 16.38 16.95 17.55 18.16

vii) 400KV Veltoor - Uravakonda - I & II (Assets-XXXVIII & XXXIX):

Rs. in lakhs)

					RS. IN IUKNS
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	992.91	992.91	992.91	992.91	992.91
Interest on Loan	1132.57	1023.35	914.13	804.91	695.69
Return on Equity	1344.13	1344.13	1344.13	1344.13	1344.13

Chiof Engineer/Commit & RAC TSTF4-0000, Vidyut Saudha,



Total:	3697.71	3592.56	3487.64	3382.97	3278.45
O&M Expenses	161.47	167.11	172.98	179.07	185.32
Interest on Working Capital	66.63	65.06	63.50	61.95	60.40

viii) 400KV Suryapet -KV Kota - I & II (Assets-XXXX & XXXXI):

(Rs. in lakhs) 2019-20 2020-21 2021-22 Particulars 2022-23 2023-24 Depreciation 1210.57 1210.57 1210.57 1210.57 1210.57 Interest on Loan 1373.04 1239.88 1106.72 973.55 840.39 1638.78 Return on Equity 1638.78 1638.78 1638.78 1638.78 Interest on Working Capital 78.26 80.21 76.32 74.40 72.48 **0&M Expenses** 184.76 191.24 197.98 178.52 204.89 Total: 4481.12 4352.25 4223.63 4095.29 3967.11

14. Based on the above, the Yearly Transmission Charges (YTC) of 41 nos. inter-State Transmission Lines (including 6 LILO Assets and New Assets) for the period from FY 2019-20 to FY 2023-24 are as follows:

Asset No.	Asset Name	2019-20	2020-21	2021-22	2022-23	2023-24
Asset I	400 KV Srisailam - Kurnool (SC)	42.17	43.39	44.64	45.94	47.28
Asset II	400 kV Kalapaka-Asupaka (Old line portion of Kalpaka-Khammam-I)	68.61	70.07	71.59	73.15	74.76
	400 KV Kalapaka-Asupaka (LILO portion)	676.02	658.49	641.02	623.60	606.25
Asset III	400 KV Kalapaka – Khammam – II	482.37	485.84	489.35	493.03	496.88
Asset IV & V	400 kV VTPS - Suryapet (Old line portions of VTPS-Malkaram - I &II)	1356.56	1318.22	1280.03	1241.98	1204.06
	400 kV VTPS- Suryapet-I&II (LILO Portions)	184.60	183.35	182.19	181.12	180.13
Asset VI & VII	400 kV Srisailam - Sattenapalli Ckt I&II	68.90	71.28	73.75	76.30	78.94
Asset VIII	220 kV Lower Sileru - KTPS - I	45.02	46.53	48.24	49.89	51.66
Asset IX	220 kV Lower Sileru - KTPS- II	30.22	31.26	32.38	33.50	34.68
Asset X & XI	220 kV Srisailam - Dindi - I & II	57.22	57.25	59.20	61.34	63.44
	220 kV Srisailam - Domalapenta (LILO portion of Srisailam - Dindi - II)	26.87	29.71	31.24	31.94	32.69
Asset XII	220 kV Tallapalli - Nagarjunasagar - III	24.67	25,53	26.43	27.35	28.32

Ghini Engineer/Cornari & RAC TSTRAY 0.20, Volyur Boudha, Hyderabad - 500 b82.



						West Service
Asset XIII & XIV	, 220 kV Tallapalli - Nagarjunasagar - I & II	49.17	50.89	52.68	54.52	56.44
Asset XV	220 kV N'Sagar Receiving Station - Srisailam (SC) Line	24.67	25.53	26.43	27.35	28.32
Asset XVI	220 kV Nunna - KTPS	40.65	42.02	43.55	45.04	46.64
Asset XVII	220 kV Tandur - Sedam	94.23	95.34	96.56	97.75	99.03
Asset XVIII	220 kV Tallapalli - Chalakurthy	94.31	78.23	78.31	78.39	78.94
Asset XIX	220 kV Brahmanakotkur - Wanaparthy (LIS)	248.58	241.95	235.52	186.38	184.98
Asset XX	220 kV Chillakallu-Suryapet (Old line portion of Chillakallu- Narketpally-I)	60.75	61.91	63.17	64.42	65.74
	220 kV Chillakallu - Suryapet (LILO portion)	185.40	181.48	177.58	45.04 97.75 78.39 186.38	169.89
Asset XXIII & CXIV	220 kV Chillakallu-Pulichintala (Old line portion of Chillakallu- Narketpally-II)	41.00	41.98	43.03	44.08	45.19
	220 kV Chillakallu – Pulichintala (LILO portion)	847.66	836.28	813.70	791.25	768.78
Asset XXII	132 kV Chillakallu - Ramapuram	19.51	20.19	20.90	21.63	22.39
Asset XXIII & XXIV	132 kV Kamavarapu Kota – Aswarao pet - I & II	35.91	37.17	38.48	39.82	41.23
Asset XXV	132 kV Nagarjunasagar - RCPH	18.90	19.55	20.25	20.96	21.70
Asset XXVI	132 kV Chillakallu - Kusumanchi	35.45	36.73	37.99	39.36	40.71
Asset XXVII & XXVIII	132 kV Chillakallu - Bonakallu- I&II	34.84	36.06	37.33	38.64	40.00
Asset XXIX	132 kV A.P. Carbides - Alampur - I (Old Line portion)	18.10	18.73	19.39	20.07	20.78
nsset ania.	132 kV A.P. Carbides - Alampur - I (LILO portion)	18.15	18.73	19.36	20.00	20.67
Asset XXX	132 kV Chillakallu - Madhira	27.71	28.35	29.04	29.74	30.47
Asset XXXI	132 kV Chillakallu - Khammam	93.04	94.14	95.24	96.42	97.59
Asset XXXII	132 kV Chillakallu - Sitapuram	20.64	21.22	21.87	22.54	23.23
Asset XXXIII	132 kV Chillakallu - Kodada	27.37	27.92	28.62	29.34	30.11
Asset XXXIV	132 kV Sitapuram - KCP	17.89	18.45	19.03	19.63	20.07
Asset XXXV	132 kV Tangeda - Wadapalli	23.40	23.78	24.20	24.62	23.90
Asset XXXVI	132 kV Piduguralla – Wadapalli	29.42	29.62	29.85	30.09	30.37
Asset XXXVII	132 kV A.P. Carbides - Alampur - II (old line portion of A.P. Carbides - Gadwal)	18.10	18.73	19.39	20.07	20.78
	132 kV A.P. Carbides - Alampur - II (LILO portion)	48.71	48.25	47.81	47.39	47.00

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Yearly Transmission Charges (Rs. in Cr.)		134.16	131.19	128.31	125.01	122.20
	13415.62	13118.96	12830.61	12500.62	12219.60	
Asset XXXX & XXXXI	400 kV Suryapeta -KV Kota I & II	4481.12	4352.25	4223.63	4095.29	3967.11
Asset XXXVIII & XXXIX	400 kV Veltoor - Uravakonda I & II	3697.71	3592.56	3487.64	3382.97	3278.45

- 15. The above is in line with the Order dated 13.02.2020 passed by this Hon'ble Commission in Petition No. 2/TT/2019, which is annexed herewith and marked as Annexure E.
- 16. It is submitted that the fee for application for determination of tariff is as follows and the same stands paid.
 - (a) As per the CERC (payment of fees) Regulations, 2012, an application for determination of tariff for inter-State transmission system or in element thereof shall be accompanied by a fee payable at the rate of 0.11% of the total annual transmission charges claimed by the transmission licensee.
 - (b) Accordingly, the application fee for the transmission charges claimed by the Petitioner for FY 2019-20 (41 Assets), FY 2020-21 (41 Assets), FY 2021-22 (41 Assets), FY 2022-23 (41 Assets) and FY 2023-24 (41 Assets) rounded off to nearest hundred works out to be Rs. 70,49,400.00 (Rupees Seventy Lakhs Forty-Nine Thousand Four Hundred Only) and the same has been paid through RTGS.
- 17. It is submitted that Regulation 70 of the CERC Tariff Regulations, 2019 provides for reimbursement of the filing fee and other expenses. The said Regulation 70 reads as under:

"70. Application fee and the publication expenses: The following fees, charges and expenses shall be reimbursed directly by the beneficiary in the manner specified herein:

Chini Engineer/Commi & RAC TBT HAVE SO, Vidynt Soudha, Hyderabad - 500 082;



(1) The application filing fee and the expenses incurred on publication of notices in the application for approval of tariff, may in the discretion of the Commission, be allowed to be recovered by the generating company or the transmission licensee, as the case may be, directly from the beneficiaries or the long-term customers, as the case may be. ..."

18. PRAYER

In view of the aforementioned facts and circumstances, the Petitioner respectfully prays that this Hon'ble Commission may be pleased to:

- a) Determine the tariff of Inter-State transmission lines connecting the State of Telangana with Andhra Pradesh (40 Assets) and the State of Telangana with Karnataka (1 Asset) for:
 - (i) FY 2019-20 (for 41 Assets, i.e., Asset-I to Asset-XXXXI);
 - (ii) FY 2020-21 (for 41 Assets, i.e., Asset-I to Asset-XXXXI);
 - (iii) FY 2021-22 (for 41 Assets, i.e., Asset-I to Asset-XXXXI);
 - (iv) FY 2022-23 (for 41 Assets, i.e., Asset-I to Asset-XXXXI); and
 - (v) FY 2023-24 (for 41 Assets, i.e., Asset-I to Asset-XXXXI).
- Approve the annual fixed charges for the assets covered under this Petition;
- c) Approve reimbursement of filing fees and publication expenses in connection with the present petition, directly from the beneficiaries in accordance with Regulation 70 of CERC (Terms and Conditions of Tariff) Regulations, 2019;
- d) Direct that as an interim measure, a provisional tariff of the assets (Asset-XVII and Assets-XXXVIII to XXXXI) be included in the PoC charges from FY 2016-17 onwards, till final determination of tariff for FY 2019-20 to FY 2023-24; and

Chief Engineer/Commit & FAU TSTRANSCO, Vident Sougha, Hyde obsd - 500 082. e) Pass any other and further order(s) as this Hon'ble Commission may deem fit and proper under the facts and circumstances of the present case and in the interest of justice.

DATE: 03/06/21 PLACE: Hyd

PETITIONER

Chief Engioner Commit & 11-TSTRANSCO, Vidyut Bouldha Hydorabad - 500 082.

NATASTIRIA RAD A COMMUNICATION OF THE GOLD

ATTESTED

K. HARASIMHA RAO, B.A., LL. ADVOCATE / NOTARY Appointed by the Govt. of T.S. # 10-1-891/401, A.C. Guards

Khairatabad, HYDERABAD

IN THE CENTRAL ELECTRICITY REGULATORY COMMISSION AT NEW DELHI

PETITION NO. _____/TT/2021

IN THE MATTER OF:

Transmission Corporation of Telangana Limited

... Petitioner

VERSUS

Transmission Corporation of Andhra Pradesh Ltd. & Anr. ...Respondents

AFFIDAVIT IN SUPPORT

I, Sri A. Vivekanand, son of Sri A. Narsing Rao, aged about 57 years and having office at Vidyut Soudha, Khairatabad, Hyderabad, Telangana-500082, do hereby solemnly affirm and state as under:

- 1. I am working as the Chief Engineer/Commercial & RAC in the Petitioner Company as named above and I am conversant with the facts of the case, and hence, competent and duly authorized by the Petitioner to affirm, swear, execute and file the present affidavit.
- 2. I say that the contents of the accompanying petition are based on the records of the Petitioner maintained in the normal course of business and believed by me to be true.
- 3. I say that the annexures filed along with the accompanying Petition are true copies of their respective originals and form part of record of the case.

I, the deponent named above, do hereby verify that the contents of my affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.

Verified at Hyderabad on this the 4.3.. day of June, 2021.

ATTESTED

TSTRANSCO, Vidyut Scudha. Hyderabad - 500 042.

K. MARASIMHA RAO, BALLE ADVOCATE / NOTARY Appointed by the Crivil of # 10-1-891/401, A.C. Giourdia Khairstebed MYDERASAD



VERIFICATION:

SPEED POST



WITER BUTTLE केन्द्रीय विद्युत प्राधिकाण दक्षिण क्षेत्रीय शिक्षण समिति 29, रेस बोर्स जात रोग lingt -560 009



Government of India Central Electricity Authority Southern Regional Power Committee 29, Race Course Cross Rand Bengalura - 560 009

Phone: 060-2228 2516; FAX: 080-2225 9343; e-mail: secommmlsrpc-ka@nic.in; web site; www.srpc.kar.nic.in विशाप/ Dated: 11th June, 2020 No. SRPC/SE-1/2020/ 3 2.07- 973

सेवार्ग / To

Chief Engineer (Comml.&RAC), TSTRANSCO, Vidyut Soudha, Hyderabad-500082

Sub: Certification of natural inter-state lines owned by TSTRANSCO for consideration of inclusion in PoC Charges-Reg.

TSTRANSCO letter No: CE (Comml.&RAC) /SE(Plg) /DE(RAC)/RAC/ F.No. ISTS Ref: /D.No.06/2020 dated 27:05:2020

महोदग /Sir.

With reference to TSTRANSCO letter cited under reference above, requesting to certify TSTRANSCO owned ISTS lines to include in PoC Charges for the period FY 2019-20 to FY 2023-24, kind attention is invited to the definition of 'Yearly Transmission Charges' in CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2010

Quote:

CE (COMML & RAC) TSTRANSCO 216 Inward Ne:. 15 JUN 2020

'Yearly Transmission Charge (YTC)' means the Annual Transmission Charges for the execting and new transmission assets of the inter-State transmission licensees, deemed ISTS Licensees, owners of inter-State transmission lines connection two States and owners of non-ISTS lines certified by Regional Power Committees for inter-State transmission of power, determined by the Appropriate Commission under Section 62 of the Act or adopted by the Appropriate Commission under Section 63 of the Act or as otherwise provided in these Regulations.

SE/Plg. \ SE/Commi.

ADE/Provided that in case of non-ISTS lines, the asset-wise tariff determined by the respective CE (Commission Revenue Requirement of STU, shall be used: "

As such, certification from RPC is not required for the owners of inter-State transmission lines connection between two States.

Therefore, it is requested that TSTRANSCO may take up appropriately for inclusion of natural inter-State lines owned by TSTRANSCO for consideration of inclusion in PoC Charges.

(मेका रामकृष्ण/ MEKA RAMAKRISHNA

अधीक्षण अभियन्ता(बा)/Superintending Engineer (C)

Copy To:

Joint Managing Director (Finance, Comml. & HRD), TSTRANSCO, Hyderabad

Chief Engineer (SLDC), TSTRANSCO, Hyderabad

Chief Engineer/Commi & RAC TSTRANSCO, Vidyut Soudha.

When

Hyderabad - 500 082.



WITE RESERVE केन्द्रीय विश्वत प्राधिकरण दक्षिण क्षेत्रीय विद्युत समिति 29, रेस कोर्स कास रोड



Government of India Central Electricity Authority Southern Regional Power Committee 29, Race Course Cross Road Bengaluru - 560 009

वेगमुर :-580 009

Phone: 080-2228 2516; FAX: 080-2225 9343; e-mail: secommmlsrpc-ka@nic.in; web site: www.srpc.kar.nic.in

No. SRPC/SE-1/2019/

विनांक /Dated: 11th September 2019

सेवा में / To

Chief Engineer (Comml. & RAC),

TSTRANSCO, Hyderabad-500 082.

> Subject: Certification of Natural Inter-State Transmission lines owned by TSTRANSCO, for consideration of inclusion in PoC charges -Regarding

TSTRANSCO letter No.CE(Comml.&RAC)/SE(Plg.)/RAC/F.ISTS/ D.No.54/19

Natural Inter-State lines owned by TSTRANSCO for filing petition in CERC for considering in Poc Mechanism, the lines listed in the enclosed Annexures (as per the data furnish...

TSTRANSCO) are certified as Natural Inter-State lines.

Telangana with Andhra Possible.

Financial Year	Number of 400 kV lines	Number of 220 kV lines	Number of 132 kV lines	Total number of Natural Inter- State lines
(2)	(3)	(4)	(5)	(6)=(3)+(4)+(5)
2014-15 *	07	14	16	37
2015-16	.07	14	16	37
2016-17	11	14	16	41
2017-18	11	14	16	41
2018-19	11	14	16	41
2019-20#	11	14	16	41
	Year (2) 2014-15 * 2015-16 2016-17 2017-18 2018-19	Year 400 kV lines (2) (3) 2014-15 * 07 2015-16 07 2016-17 11 2017-18 11 2018-19 11	Year 400 kV lines 220 kV lines (2) (3) (4) 2014-15 * 07 14 2015-16 07 14 2016-17 11 14 2017-18 11 14 2018-19 11 14	Year 400 kV lines 220 kV lines 132 kV lines (2) (3) (4) (5) 2014-15 * 07 14 16 2015-16 07 14 16 2016-17 11 14 16 2017-18 11 14 16 2018-19 11 14 16

from 2nd June 2014 to 31st March 2015.

upto 31st July 2019

Yours faithfully,

संलग्नक:यथोपरि/ Encl: as above

त वन (वर्षात (टी वॅकटेश्वरल/T.VENKATESWARLU)

अधीक्षक अभियंता(C) / Superintending Engineer(C)

प्रतिलिपि /Copy to:

1. Joint Managing Director (Finance, Comml. & HRD), TSTRANSCO, Hyderabad

42

2. Chief Engineer (SLDC), TSTRANSCO, Hyderabad

Chief Engineer/Commit & RAC TETRANSCO, Vidyut Soudha, Hyderobad - 500 000

Annexure-III
List of SHPC certified Natural Inter State Lines Owned by Telangana 5TU for FY 2016-17

SL No.	Name of Lieu	Telangana Sobstation	nac	Post of operation of the Line	Total Line Length (In Clo-len)	line Telangona Portion (in Cld-lum)	Consection States
-1	600 kV Smelan - Karrool (SC)	Srindan Lit	86.63.2968		102.00	1.5	1
2	450 kV Kalpuka-Khammann I	Khananan	10.05.2002	- 4	560.00	121.0	
3	400 kV Kalpsla-Kharsmurs-II	Kitemmen	10.05.2002		160.00	121.0	
	400 kV VTPS- Sansper I	Sargaget	30:03:2016		129.00	36.9	
	400 kV VTPS-Malkarans-Cks-III	3-fathanaen	13.02.2013		260.95	189.3	7
6	400 kV VTPS- Samenopalii Che-I	Seisolon LB	12.02.2014		166.00	0.40	
. 7	400 kV VTPS- Saturagadii Chi-II	Smalum Lill	12.02.2014	12	166.00	0.46	
	#80 kV Urzyskonda-Valuus-I	Velmer	17.11.2016		196,96	73.64	7
	660 kV Urreskonda-Veltoor-II	Velour	18.11.2016	- 2	196.96	73.64	7
10	400 VV Sayapet Kamerarapa Kasa-I	Surpeper	70.10.2016	-	171.00	86.41	7
- 1	400 kV Survapet Kainavarapu Kota-II	Suryaper	30.10.2014		171.00	\$6.40	1
12	220 bV Lower Silens-8; TPS-1	KTPS	31.03.1967	400	141.17	83.00	1 1
13	120 kV Lover Stern-KTPS-II	KTPL	31.03.1979	+	113.20	23.0	1
14	220 A.V. Srissilans-Disabel	Diedi	12.09 1987	-	#1.20	80.00	1 1
15	229 kV Sribalism Dindi-II	Direction	12.09.1982		81.20	80.06	
14	720 k V Tellapath-Nagarjanesapar-III	Недосущенадая	27.01.1985	÷	13.00	4.96	
17	220 kV Tallapolis Nagorjennagor-I	Nagarjumnagar	05.08,1985	+	12.10	1.10	
19	220 kV Taltipath Naparturangar-3 720 kV NSagar Receiving Station Streamer	Nepromiser	05.08.1985	201	12.10	2.10	1
19	(SC) Line	N'Segar Receiving Station	07.02.1989	- 20	90.00	4.00	Ē
20	229 kV Norma -KTPS	KTPS	21.01.1992	45	135.60	64.45	1
21/2	229 kV Telligratii- Chatdwarty	Childutty	21.07.7007	-0.0	38.40	27.40	Telasgass & Audhra Pradeul
22 2	220 kV Scalemakoskur Wataparby (LES)	Wanaparthy(L25)	29.16.2009		97.64	79.79	4
13 8	6 220 kV Chillakallio-Nasketpulli-1	Nadospelti	10.03.2010	21,12,2016	(30.00)	108.00	- 5
-	0229 kV Chillalathe-Suryapeta	Secure	21.12.2016		63.80	50.30	2
14/2	220 kV Chillshalls-Narkespulli-H	Nacketpath	10.03.5010		120.00	108.00	1
15 1	52 kV Chilbiallo-Response	Ramopurses	21.10.2912		23.67	6.67	
25 1	32 kV Komorrapo Kota-Assaraupat-L	Astronom	09.66,1912	- 20	36.50	5.50	
77 1	22 kV Kamavarapa Kosa Assessupet-0	Astronipopel	00.0K 1982		36.50	3.50	
18 1	33 kV Negotjenneger-RCPSI	Negociorosque	25.02.1993		13.76	7.70	
9 1	32 kV Chilhhalts-Kosumaschi	Kommenti	24,12,1995	- 3	38.00	47.00	
0 1	22 kV Chillakalla-Bonskalla-I	Bondelle	20.03 1987		20.00	7.60	8 1
ф	32 kV Chilishalla-Bonskylla-II	(konskalle,	26.61.1987		29.00	2.80	
2 1	32 kV A.P.Carlindos-Alampar-I	Alangur	17.05.2004	1.63	19.70	5.89	
2 0	22 S.V. A.P. Carbides - Alampur-31	Alampir	06.09.2014		33.00	3.80	
4	32 kV Chilikullo-Madissa	Madhin	27.10.2901	1941	29.00	7.00	
2 13	32 kV Chillskallie Khammann	Charmen	02.12.2061	14	49.00	35.00	
6 ()	10 kV Chillellofio Sitaguram	Singuesen	66,04.2004		12.00	2.50	
7 13	12 XV Childelde-Kodada	Kodada	10.06.2004	4	21.56	9.84	
8 13	12 kV Stoporem-SCP	Sitapuran	10.05.2010	, a	2.40	9.37	
9 13	12 hV Tarquda-Wadapulli	Wadapalli	26.08.2619	/	29.74	2.36	
12	12 kV Pidaporalio Wadapatii	Wedgetti	22.02.2014		45.58	2.36	- 1
dia	12 kV Tendyr-Sedum	Tendor	28.02.2001		64.50		Telangana & Karnataha

Chief Engineer/Commi & RAC TSTRANDCO, Vidyut Soudha, Hydwishad - 500 002.

Annexure-IV

List of SRPC certified Natural Inter State Lines Owned by Telangana STU for FY 2017-18

58. No.	Name of Line	Telangman Substation	D.O.C	Date of operation of the Line	Total Line Length (in Chi-lan)	line Telangana Portion (in Ckt-km)	Connection States
	400 kV Srissilam - Kumool (SC)	Srieden LB	06,03,2001	32	102.00	1.50	1
	a) 400 kV Kalpala-Khamman-I	Khammara	10.03.2002	09.08.2017	360.00	121.00	
	to 400 kV Kalpska-Assguka-I	Asspaka	09.08.2017	-	264.50	25.50	8 1
- 3	400 kV Kalpala-Khamman-II	Chamman	10 05 2002		360.00	121.00	
	400 kV VTPS-Suryapet-I	Suryaper	30.03.2016		129.00	56.96	
-	400 kV VTPS-Malkarani-Ckt-li	Malkaram	13,02,2013	54	260.95	189.32	
100	400 kV VTFS- Sattenapalli Ckr.l	Srisalism LB	12.02.2014	1.0	166.00	0.40	
	400 KV VTPS: fatterapalli Ckt-II	Sriswitees Lfb	12,62,2014		166.00	0.40	8
	400 kV Uravakonda-Veltoor-I	Virtoor	17.11.2016	12.	190.96	73.60	8
	400 kV Usrvakenda-Volroor-II	Veltoor	18.11.2016	- 1	190.96	73.60	8 1
	400 kV Suryspet Kamavarapu Keta-I	Suryapus	20.10.2016		175.00	88.40	8
	400 kV Suryapet Kamevarapu Keta-II	Saryapet	20.10.2016		175.00	86.40	
	220 kV Lower Silena-KTPS-t	KTPS	31.03.1967		141.17	81.00	
-	220 kV Lower Silens-KTPS-II	KTPS	31.03.1979	7 2	113.20	25.00	E .
	220 kV Srination-Dindi-I	Diedi	12.09.1082		81.20	80.00	
13	Carl 550 rt 6 rt 25 rt 3 rt 11	(Andi	12.09.1982		81.20	80.00	ā
-	220 kV Yalfapalli-Nagarjunasagar III	Nagarjunanagur	27 01 1985		15:00	4.00	
77	220 kV Tallapalli-Nagarjunasagar I	40.7 (142.9 O 142.1 C)	05.08,1985		12.10	2.10	10
18		Nagarjumangur	05.08,1985		12.10	2.10	1
	220 kV N'Sagar Receiving Station-	Negecianeager	20100000	100		1000	dangana & Andhra Prodesh
11	Scisarlam	Nilagar Receiving Station	07.02.1989		80.00	4,00	3
20	220 kV Nisera - KTPS	KTPS	21.01.1992	+	125.60	64.45	16
21	220 kV Tallapati- Chalaisrthy	Chalekortly	21.07.2007	- 4	38.40	27.40	1
22	220 kV Brahmnskojkar-Wanapurby (L/5)	Wanapariby(LIS)	29.10.2009	+	97.64	78,79	3
20	220 kV Chillakalla-Suryapet	Suryapet	21.12.2016	-	65.80	50.10	12
24	220 kV Chilliskallu-Narketpalli-II	Narkstpilli	10.03.2010	4.	120.00	108.60	
25	132 kV Chillakallu-Ranquram	Ramepuran	21.10.1982		21.67	8.67	
26	132 kV Kamerangu Keta-Aswaraspel-I	Acveraget	09.00.1912		36.50	5.50	
27	132 kV Kameranapu Kota-Akwaraupet-II	Aswaraspet	09:06:1982		36.50	3.50	
28	132 kV Nagarjutanagar-RCPH	Negarjunasagar	25,02,1983	121	13.70	7.70	
29	132 kV Chillskallu-Kusumaechi	Kusumanchi	24,12,1985	+	58.00	47.00	
30	132 kV Chillekafla-Bonakafla-L	Booskellu	20.01.1987		20.00	2.80	
31	(32 kV Chillakaflu-Bonakaflu-fl	Sonakallu	20/01/1987	- 4	20.00	2,80	
37	132 kV A.P. Carbides-Alampar-I	Alemper	17.05.2004	7.	19.70	5.86	
33	132 kV A.P.Carlodes-Alampse-II	Alampur	06.00(2014)	- 2	22.00	5.86	
34	132 kV Chillakallu-Madhira	Mathics	27 10 2001	101	28.00	7.00	
33	122 kV Chillakalla-Kharemen	Khamman	62.12.2001		46.00	35.00	
24	132 kV ChilleRullu-Sitepuress	Stapuren	06.04.2004	-	17.00	2.50	
37	132 kV Chilliskallu-Kodasla	Kedada	10 05 2004	2	21.56	9,54	
38	132 kV Situpuran-KCP	Stapanen	10 05 2010		2.40	0.37	
39	132 kV Tangede-Wadapath	Wadapielli	26.08.2010	2	29.74	2.36	
40	132 kV Piduguralla-Wadapelii	Wadapalli	22.02.2014		45.58	2.36	1
	220 kV Tarefur-Sedem	Tasadior	28.02,2001	5-5	44.50		Telorgan & Karnsti

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Sit. No.	Name of Line	ed Natural Inter State Triangina Substition	p.o.c	Date of operation of the Line	Total Line Length (in Ckt-len)	For Telangins Portion (in Clo-km)	Cannecting States
-	600 kV Sinsallam - Kumool(SC)	Senatara US	66.63.2001	- 0	102.00	1.50	1
	400 k V Kalpaka-Ampaka-I	Ampelia.	09.08.2017		264.50	25.50	
	400 kV Kalpala-Khummam-II	Chimnain	10:05:2002	- 14	360.00	131.00	
_	C1 (ACC) (ACC) (ACC) (ACC) (ACC)	Suryapet	30:03:2014	14	129 00	56.96	
_	400 kV VTPS- Sugrept-I	Maharam	13.82.2013	18.94,2018	360.03	189.32	
3	z) 400 kV VTPS-Malkarase-Ckt-f3	Trouget	14.04.7018		129 00	56.96	
	to 400 kV VTPS- Suryapet-II	Scienters Litt	12.02.2014		(66.00	0.40	
	400 kV Srisslam - Saturagalli CKt4	Separation LD	12.02.2014		166.00	0.40	
	400 kV Spinilare - Sattempalli CKt-II		17.11.2016		196.96	73.60	
	#10 kV Urevakanda-Vidtoor I	Veltoor	18.11.2014		196.96	71.60	
	400 kV Uranskonda-Veltope-II		20.10.2016		175.00	86.40	
	100 kV Suryupet Kameteriqu Kota-I	Soryget			175.00	86.40	
	400 kV Sacrapet Kamavarapa Kota-II	Socyapet	31.03.1967		141.17	1,000	
	120 kV Lower Stiete-KTPS-I	KIPS			113.20	25.00	
	220 kV Lower Statu-KTP3-11	KTPS	\$1.03.1979		41.29	80.00	
	220 kV Srisaten Dindi I	Dindi	12.09.1982		81.20	80.00	
	220 kV Schurlan-Dindi-II	Dinds	12.09.1982	-			
	220 kV, Tallapulli-Nagarjammuse-III	Naparjusangar	27,01,1965	-	15.00		
17	220 kV Tulboulli-Nagarjustenagar I	Nagarjanetager	05.08.1985	- 1	12 10		9
11	220 kV Tallandl-Nagerinnsoger-fl 220 kV NSager Receiving Steene-	Napirjenetiger	05.08.1983		12.10	7.00	
19	Smallen	NSagar Reserving Station	67.02.1989	-	90.00	4.00	felangssa & Andhru Pradesh
.25	220 kV Nyssa - KTPS	KIPE	21.01.1992	-	125.60	04.41	- ×
21	220 kV Tellapalli- Chelabority	Chalskurtly	21,07,2007		18.40	27.40	- 1
_2;	120 LV Brahmuskotkur-Wanaparthy(L25)	Wanapartiv(LI5)	29.10.2009	-	97.64	78,79	- 9
	220 kV Chillakaflo-Swyapet	Signat	21.12.2016		62.30	50.30	2
34	u) 220 kV Chiliskathi-Nurkerpalli-II	Nekepsii	10.03,2010	05.12.2018	170.00		T
	h) 220 kV Chillelaille-Pilateonala	Pubilistals	65.12.2018		78.78	56.78	
21	(32 kV Chillakallus Ranguran)	Язпаритип	21 10 1982	- 4	21.67	6.67	
24	133 kV Kanavaraju Kota-Aswaraope-I	Aswaraopet	19:06,1982		36.50	5.50	
22	132 kV Kamayaragu Kora-Aywaraopet-H	Assumoper	19 0s, 19E2		36.50	3.30	
21	US2 kV Nagarjenasagar-RCPH	Squannigir	25.02.1983	-	13,70	7.70	
25	132 kV Chillaballo-Kassenanchi	Kanaranchi	24.12.1985	-	58.00	47.00	
31	132 KV Chillishalto-Bonskallo-I	tionskafts	20.01.1987	-	20.00	2,80	
2	(32 kV Chilpkallu-Bosekallu-II	Bosskalla	20.01.1987		20,00	2,60	
33	LS2 KV A.P. Carbidos-Alampur I	Alampur	17.05.2004		19.70	5.96	1
33	132 kV A.F.Carbides-Alangur-U	Alaregue	16.09.2014	-	22.00	5.86	
3	132 KV Chillakaba-Madiire	Madhire	27.10.2001	100	28.00	7.00	5
31	132 kV Chilliskelv-Khenman	(Summo	02.12.2001	100	46.00	35.50	
34	132 kV Chilhikalla-Staparam	Situpunan	16.04.2004		17.60	2.50	
1	132 kV Chilliskeliu Kodeda	Kodada	10.06.2004	-	23.36	9,84	
31	132 kV Sitaparam-KCP	Singuism	10:05:3010		2.40	0.37	
10	133 kV Tangoda Wadapelli	Wadaputii	26 08 2010	- 4	29.74	2.36	
46	132 kV Poluguralla-Wadagulii	Wadapatii	27.02.3014	100	45.58	2.36	
	1005 CONT 2 CONT	447430	The second second			1	Telangue

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Annexure-VI

List of SRPC certified Natural Inter State Lines Owned by Telangana STU for FY 2019-20 (up to 31-07-2019)

SI. No.	Name of Line	Triangana Substation	D.O.C	Termination Date of operation of the Line	Total Line Length (in Chi-lan)	the line Telangana Portion (In Cld-lam)	Connecting States
- 1	400 kV Srimillam - Kurnool (SC)	Stitulari LB	06.03.2001	- 4	102.00	1.50	1
- 2	400 kV Kalpaka-Asopaka-I	Asupoka	09.08.2017	184	264.50	25.50	
3	400 kV Kalpala-Khammam-II	Khemmem	10.05.2002		360.00	121.00	
- 4	400 kV VTPS-Suryapet-l	Soowet	30.93.2016		129.00	56.96	1
.9	400 kV VTPS- Suryspet-II	Suryspet	14.04.2018	-	129.00	56.96	
- 6	400 kV Srisailam - Sattenapalli CKt-l	Senadam LB	12.02.2014		166.00	0,40	
.7	400 kV Scinnilam - Sattempalli CKt-II	Sessition LB	12,02,2014		166.00	0.40	
. 8	#00 kV Uravakonda-Veltoor-I	Veltoor	17.11.2016	- 04	196.96	73.60	
- 9	400 kV Uravakonda-Velmor-II	Vetroor	18.11.2016		196.96	73.60	
10	400 kV Suryspet Kamavaragu Kota-I	Suryapet	20.10.2016		175.00	86.40	
-11	400 kV Suryapet Kamavarapo Kots-II	Survepet	20.10.2016	- 10	175.00	86,40	
12	220 kV Lower Sileru-KTPS-I	KTPS	31.03.1967	1.0	141.17	81.00	
13	220 kV Lower Sileru-KTPS-II	KIPS	31.03.1979	+	113.20	25.00	
14	220 kV Srisallan-Dindi-I	Dinii	12 09 1982	14	81.20	80.00	
13	a) 220 kV Sribatlam-Dindi-II	Dindi	12.09.1982	26.07.2019	81.20	80.00	
	b) 220 kV Sribailem-Domalapema	Demalapema	26.07.2019		1.60	0.30	4
16	220 kV Taltepalli-Negarjunasagar-01	Negacjunasagar	27.01.1985	- 4	15.00	4.00	-6
17	220 kV Talliquilk-Nagarjunasagar-I	Nagarjunasagar	05.08.1985	- 12	12.18	2.10	906
19	220 kV Tallapalli-Nagarjunasagar II 220 kV NSagar Receiving Station Scinatare	Nagarjunanagar	05.08 1985		12.10	2.10	elagara & Aadhra Pradesh
$\overline{}$	220 kV Nusna -KTPS	NSagar Receiving Station SCPPS				64.45	Age .
22.1	220 kV Talispelli- Chalakurthy	Chalskurthy	21.07.1992		125.60	27.40	-6
	Charles and the Control of the Contr	The Control of Control	29.10.2009		97.64	78.79	5
_	220 kV Brahmakoftur-Wanaparthy(LIS) 220 kV Chillaballu-Soryapet	Wansparthy(LES) Suryapet	21 12 2016		62.30	50.10	- 4
	220 kV Chillakallu-phichintala	Pulichimia	05.12.2018		79.76	66.78	-
-	132 kV Chillakallu-Rampuram	Рамарскан.	21.10.1982	- 1	21.67	6.67	1
-	132 kV Kamavarapu Keta-Assuraopet-I	Aywaraopet	00:06:1082		36.50	5.50	
-0.1	132 kV Kamavaragu Kota-Anwaraopet-II	Aswaraopet	09.06.1982		35.50	5.50	
-	132 kV Nagarjunasagar-BCPH	Nagarjunasagar	25.02.1983		13.70	7.70	
	132 kV Chillaballu-Kunumanchi	Kimmenchi	24.12.1985	7.7	58.00	47.00	
	132 kV Chillakallu-Borakallu-I	Donskaltu	20.01.1987		20.00	2.80	
	132 kV Chillekallu-Benekellu-II	Benekaliu	20.01 1987		20.00	2.80	
_	132 kV A.P.Cartisdes-Alangsar-I	Alamper	17.05.2004		19.70	5.86	
	132 kV A.P.Cartrides-Alampur-II	Alergus	06.09.3014		22.00	5.86	
_	132 kV Chiltekallu-Madhira	Madhira	27,19,2001	2	25,00	7.00	
_	132 kV Chillekullu-Khemmen	Khammarn	02 12 2001		46.00	35.00	
_	132 KV Chillaffailta-Sitapuram	Stapuram	06.04.2004	-	17,00	2.50	
	132 kV Chillekallu-Kodeda	Kodada	10.05.2904	4	21.56	9.84	
	132 kV Sitepurser-KCP	Steperam	10.05.2010		2.40	0.37	
	132 kV Yangeda-Wadapulii	Wadapalls	26.08.2010		29.74	2.36	
_	132 kV Pidugumila-Wadapalii	Wadepalli	22.02.2014	- 4	45.58	2.36	1
	220 kV Tandur-Sedam	Tandur			44.50	9.46	Triangana & Karnatak

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Chief Engineer/Commi & RAC TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082.

Annexure-1

List of SRPC certified Natural Inter State Lines Owned by Telangana STU for FY 2014-15 (for the period from 2nd June 2014 to 31st March 2015)

SL No.	Name of Line	he period from 2 nd Jun Telangana Substation	D.O.C	Termination Date of operation of the Line	Total Line Length (in Clot-lam)	Length of the line Telangana Portion (in Ckt-km)	Connecting States
1	400 kV Srisailam - Kumool (SC)	Srisalum LB:	06.03.2001		102.00	1.50	Î
	400 kV Kalpaka-Khammani-I	Khammam	10.05.2002		360.00	121.00	
	400 kV Kulpala-Khummam-II	Khammam	10.05.2002		360.00	121.00	
	400 kV VTPS- Malkaram Ckt-I	Malkaram	01.04.2013		260.95	189.32	
	400 kV VTPS- Mulkarum Ckt-fl	Malkaram	13.02.2013	-	260.95	189.32	8 7
_	400 kV Srisailara-Sattenapalli Ckt-l	Scinatom LB	12.02.2014	-	166.00	0.40	
	400 kV Srisailan-Sattenapalli Ckt-II	Srisalaim LB	12.02.2014		166.00	0.40	
	220 kV Lower Sderu-KTPS-I	KTPS	31.03.1967		141.17	81.00	
	220 kV Lower Silera-KTP5-II	KTPS	31.03.1979	- 3	113.20	25.00	
	220 kV Srissilum-Dindi-I	Dindi	12.09.1982	-	B1.20	80.00	\$ /I
	220 kV Srilseilam-Dindi-II	Dindi	12.09.1982	- 4	81.20	80.00	
	220 kVTallapalli-Nagarjumangar-III	Nagarjunasagar	27.01.1985	+:	15,00	4.00	
	220 kV Tallapalli-Nagarjumasagar-l	Nagarjunasagar	05.08.1985		12.10	2.10	
	220 Kv Taliapalli-Nagarjunasagar-II	Nagarjunasagar	05.0E 1985		12.10	2.10	
	220 kV N Sagar Receving Station-	N'Sagar Receiving Station	07.02.1989	-	90.00	4.00	
	Sciudian (SC)Line	KTPS	21.01.1992	1	125.60	32.5%	Telangana & Andhra Pradesh
	220 kV Nunna -KTPS	Chalakurthy	21.07.2007		38.40		E
	220 kV Tallapalli- Chalakurthy	Wanaparthy(LIS)	29.10.2009		97.64		- F
	220 kV Brahmnakorkur-Wanaparthy (LIS)	Narketpalli	10.03.2010		120.00	A	- P
	220 kV Chillakalla-Narketpelli-I	Narketpulli	10.03.2010		120.00	100000	8
	220 kV Chillakaflu-Narketpafli-II	155 Table 155	21.10.1982	1 22	21.67	1 0000	5
	132 kV Chillakallu-Rampuram	Ramapuram	09.06.1982		36.50		- Ē
	132 kV Kamavarapu Kota-Aswaraopet-I	Aswaraopet	09 06 1982		36.50	74,583	ī
	132 kV Kamavarapu Kota-Aswaraopet-II	Aswaraopet Nagarjunasagar	25.02.1983		13.70		9
	132 kV Nagarjunasagar-RCPH 132 kV Chillakatlu-Kusumanchi	Kusumanchi	24.12.1985	100	58.00	0.000	
-	132 kV Chillakallu-Bonakallu-l	Donakallu	20.01.1987		20.00	1000	
	132 kV Chillakallu-Borakallu-II	Donakailu	20.01.1987		20.00		
		AUT/25/12	17.05.2004	1.0	19.70	100920	
	132 kV A P Carbides-Alampur-L	Cadwal	17,03,230	06.09.2014		1200	
25	a)132 kV Gadwal - A.P. Carbides b)132 kV A.P. Carbides-Alampur-II	Alampur	06 09 2014		22.00	5.86	
21	132 kV Chillakallu-Madhira	Madhira	27 10 2001		28.00		
	132 kV Chillakallu-Khanmam	Khammam	02 12 2001		46.00		
	2 132 kV Chillalkallu-Sitapuram	Sitaporam	06.01.2004		17.00	2.50	
	3 132 kV Chillakallu-Kodada	Kodada	10.06.2004		21.56		
	132 kV Stapuram-KCP	Sitapuram	10.03.2016	355	2.40		
	5 132 kV Tangeda-Wadapalli	Wadapalli	26.08.2010		29.74		
		Wadapalli	22.02.2014		45.58	75.00	
	6 132 kV Piduguralla-Wadapalli 7 220 kV Tandur-Sodam	Tandur	28.02.200		44.50	9,550	& Karnati

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	List of SRPC certified N	Satural Inter State Line	s Owned by	Telangana	STU for FY	2015-16	
51. No.	Name of Line	Telangana Substation	D.O.C	Date of operation of the Line	Total Line Length (in Cht-lim)	line Telsogana Portion (in Ckt-km)	Connecting States
4	400 kV Seisstiem - Kurneol(SC)	Srindam LB	06.03.2001		102.00	1.50	1
	400 kV Kalpaka-Khammuri-l	Kharanam	10.05.2002	5	360.00	121.00	
	400 kV Kalpala-Kharramaro-II	Khammon	10.05.2002	111	360,00	171.00	
	a) 400 kV VTPS- Malkaram Clif-I	Malkaram	01/04/2013	30.03.2016	260.95	189.32	
. "	b) 400 kV VTPS-Suryapeta Ckt-I	Soryapeta	30,63,2016	DANGE TO SE	129.00	56,96	
*	466 kV VTPS- Malkatam Ckt-II	Malkacam	13.02.2013	1	260.95	189.32	
16	400 kV Srinariam-Satterragalli Ckt-l	Srisalism LD	12.02.2014		166.00	0.40	
7	400 kV Smailum-Satterapathi Ckt-II	Srisailam Lli	12 02 2014		166.00	0.40	
	210 kV Lower Sileru-KTPS-I	KTPS	31.03.1967		141.17	81.00	
9	220 kV Lower Sileru-KTPS-II	KTPS	31.03.1979		113.20	25.00	
	220 kV Srissilam-Dindi-I	Dindi	12.09.1982	745	81.20	80.00	
	220 kV Sribailain Dindi-II	Dindi	12.09.1982		81.30	80.00	
	220 kV Tallapelli-Nagarjunanagur-Ill	Nagarjuranagar	27.01.1985	-	15.00	4.00	
	220 kV Tallapath-Nagarjumsagar-I	Nagarjumanagar	05.08.1985	1.000	12.10	2.10	
	220 kV Taliapath-Negarjuranagar-ti 220 kV NSagar Receiving Station-Stitution	Nagorjunasagar	05.08.1985	1925	12.10	2.10	782
	Z20 EV NSagar Receiving Station- Stituliam (SC) Line	N'Sagar Receiving Station	07.02.1989		99.00	4.00	- 4
1.6	220 kV Numm - KTPS	KTPS	21.01.1992	7.0	125.60	64.45	Authri Prades
17	220 kV Tallapath-Chalakurthy	Chalakurthy	21.07,2007		38.40	27.40	Fig.
	220 kV Brahmakotkor-Wanaparthy(LIS)	Wanaparthy(LIS)	29.16.2009		97.54	78.79	
19	220 kV Chillakaita-Narketpalli-i	Nurkeipalli	10.03.2010		120,00	109,00	1
	220 kV Chillskalla-Narketpalli-II	Narkerpelli	10.03.2010		120.00	108.00	Telangana A
21	132 kV Chillabaltu-Rampuram	Kanapaun	21,10,1982	-	21.67	6.67	T.
22	112 kV Kamavaragu Kata-Aswaraopet-L	Aswaraopet.	09.06.1982		36.50	5.50	
23	132 kV Kamavarapu Kota-Aswaraopet-II	Aswaraopet	09.06.1982	2.5	36.50	5.50	
24	132 kV Nagarjunanagar RCPSI	Nagarjanasagar	25.02.1983	-	13.70	7.70	
25	132 kV Chillskalls-Kusumanchi	Kusumanchi	24.)2.1985	1.0	58.00	46.30	
26	132 kV Chillaka/lo-Bonakallo-I	DonakaDx	20.01.1987	-	20.00	2.80	
	132 kV Chillakallo-Benakallo-II	Bonakatha	20.01.1987	- 5	20.00	2.80	
28	132 SV A.P. Carbides-Alampur-I	Alemput	17.05.2004		19.70	5.86	
29	132 kV A.P. Carbides-Alampur-II	Alampur	06.09.2014	. ,	22.00	3.86	
	132 kV Chillakulu-Madkira	Madira	27.10.2001		28.00	7,00	
-	132 kV Chillakollu-Khammam	Khammere	02 12 2001		46.00	35.00	
	132 kV Chillelkallu-Sirapurum	Situpuram	06.04.2004		17.00	2.50	
	132 kV Chiffuloilti-Kododa	Kedada	10.06.2004		21.56	9.84	
	132 kV Steguram-KCP	Stapuram	10.05.2010	1	2.40	0.37	
	132 kV Tangoda-Wadapalli	Wadapalli	26.08,2010		29.74	2.36	
_	132 kV Piduguralla-Wadapalli	Wadapalli	22.02.2014		45.51	2.36	
-	220 kV Tandur-Sidam	Tandur	28.02.2001	23	44.50	0.46	Telangana & Karmitika

Chief Englisser/Commit & RAG TSTRANSGO, Vidyut Souths, Hyderabad - 500 082.



भारत सरकार केन्द्रीय विश्वत प्राधिकरण दक्षिण दोषीय विद्युत समिति 29, रेस कीर्स कास रोड



Government of India Central Electricity Authority Southern Regional Power Committee 29, Race Course Cross Road BENGALURU - 560 009



Phone: 080 -2228 2516; FAX: 080-2225 9343; e-mail: secommilisrpo-ka@nic.in; web site: www.sroc.koir.nic.in

सं. दक्षेविस /जज.1/2019/ No. SRPC/SE-1/2019/ 3631 दिनांक /Dated: 20th June, 2019

सेवा में / To Chief Engineer, SLDC, TSTRANSCO, Hyderabad-500 082.

Subject: -Certification of Natural Interstate Transmission lines owned by STU, which carry inter-State power, for consideration of inclusion in POC charges -Reg. Ref: TSTRANSCO letter No. CE-SLDC/SE-SLDC/DE-DS & S-II/F.No.06/D.No.52/19, dated 14.06.2019

Chief Engineer, SLDC, TSTRANSCO, Telangana, vide above referred letter, had Sir. requested for the SRPC certification of the interstate lines owned by Telangana STU, so that the same lines can be considered for the inclusion in POC charges for the year 2016-17.

Accordingly, the lines enclosed at Annexure-I owned by Telangana STU connecting Andhra Pradesh with other states, viz, Telangana, Tamil Nadu, Karnataka and Union Territory of Puducherry are certified as interstate lines owned by Telangana connecting another state.

Yours faithfully,

संलग्नक:यथोपरिEncl: as above

of attendant

(टी वैकटेश्वरलु/T, VENKATESWARLU)

अधीक्षक अभियंता(C) / Superintending Engineer(C)

Chief Engineer/Comm\ & RAC TETRANSCO, Vidyut Southe, Hydrafind - 100 082.

ANNEXURE I

		year 2016-17	
S.NO	Substation	Name of the Line	Connected to
1	Srisailam LB	400kV Sattennapalli Line-2	Andhra Pradesh
2	Srisailam LB	400kV Sattennapalli Line-1	Andhra Pradesh
3	Srisailam LB	400kV Kurnool	Andhra Pradesh
4	Suryapet	400kV VTPS	Andhra Pradesh
5	Malkaram	400kV VTPS Line-I	Andhra Pradesh
6	Khammam	400 kV VSP (Kalpaka)-I	Andhra Pradesh
7	Khammam	400 kV VSP (Kalpaka)-II	Andhra Pradesh
8	Chalakurthy	220kV Talapalli Line	Andhra Pradesh
9	Veltur	400kV Uravakonda Line I	Andhra Pradesh
10	Veltur	400kV Uravakonda Line II	Andhra Pradesh
11	Wanaparthy	220kV Brahmanakotkar Line	Andhra Pradesh
12	N'Sagar	220kV Talapalli Line-3	Andhra Pradesh
13	N'Sagar	220kV Talapalli Line-2	Andhra Pradesh
14	N'Sagar	220kV Tulapalli Line-1	Andhra Pradesh
15	N'Sagar	220kV Line Srisailam RB	Andhra Pradesh
16	Narketpalli	220kV Chillakallu Line-2	Andhra Pradesh
17	Narketpalli	220kV Chillakallu Line-1	Andhra Pradesh
18	KTPS	220kV L. Sileru line II	Andhra Pradesh
19	KTPS	220kV L. Sileru line I	Andhra Pradesh
20	KTPS	220kV Nunna Line	Andhra Pradesh
21	Dindi	220kV Srisailam RB line II	Andhra Pradesh
22	Dindi	220kV Srisailam RB line I	Andhra Pradesh
23	Tandur	220 kV Sedam line	Karnataka
24	Wadapalli	132kV Piduguralla# Line	Andhra Pradesh
25	Wadapalli	132kV Tangeda Line	Andhra Pradesh
26	Seethapuram	132kV Chillakallu Line	Andhra Pradesh
27	Seethapuram	132kV KCP Cements Line	Andhra Pradesh
28	Rampuram	132kV Chillakallu Line	Andhra Pradesh
29	N'Sagar	132kV N'Sagar RC Line	Andhra Pradesh
30	Madhira	132kV Chillakallu Line	Andhra Pradesh
31	Kodada	132kV Chillakallu Line	Andhra Pradesh
32	Khammam	132kV Chillakallu Line	Andhra Pradesh
33	Kasumanchi	132kV Chillakallu Line	Andhra Pradesh
34	Bonakal	132kV Chillakallu Line-2	Andhra Pradesh
35	Bonakal	132kV Chillakallu Line-1	Andhra Pradesh
36	Aswraopet	132kV Kamavarapukota Line-2	Andhra Pradesh
37	Aswraopet	132kV Kamavarapukota Line-1	Andhra Pradosh
38	Alampur X Road	132kV AP Carbides Line	Andhra Pradesh
39	Cadwal	132kV AP Carbides Line	Andhra Pradesh

A Links
CHET ENGLISH COMME & RANT
TSTRANBOO, Vidyul Sociona,
Hyderabard - 500 002.

CALCULATION OF ANNUAL TRANSMISSION Asset-I :					(Rs. In	takhs)
400 KV Srisailam - Kurnool					27.27.77.7	
COD: Rationalised cost of 400ke tine (its: hikb per ckt km) Transmission Line length in cht km No. of buys Multiplication Factor Life in years Voltage kv	06,03,2001 54,57 1,5 1 1 25 400	2001		70777.00		* 2000 D
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Cross Block		81.86	#1.#6	81.86	81.86	81.86
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		- 100				
Gross Block Total		. 81.80	#1.#0	M1.80	81.86	R1:84
Average Gross Block		N1.86	81.86	81.80	81,86	HT.H
		C LONGTON	7,110,100	100000000	111111111111111111111111111111111111111	-
Depreciation	_	2.05%	2.05%	2.05%	2.05%	2.05%
Rate of depreciation	1413%	23.67	23.67	73.62	73.67	23.60
Depreciable value	90%	18.00	19.00	20.00	21.00	22.00
Flapsed life as on 31.03.2019	- 1000	7,00	6.00	5.00	4.00	3.00
Balance useful life of the asset	_	10.06	8:38	6.70	0.03	3.3
Remaining depreciable value Cumulative Depreciation	_	63.61	05.29	00.97	66.64	70.3
Depreciation		1.08	1.68	1.68	1.68	1.00
				1200	STREET, SQUARE,	
Interest on loan	100			-		-
Cross Normative Loan		57.30	57.30	57.30	57.30	57.M
Cumulative repayment upto previous year		87,30	57.30	57.30	57.50	57.34
Net loan - opening		0.00	0.00	0.00	0.00	0.00
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.00
Repayment during the year Not han a losing		0.00	0.00	0.00	0.00	0.00
Average Loan	_	0.00	0.00	0.00	0.00	0.00
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	11.00%	11.00%
Interest		0.00	0.00	0.00	0.00	0.00
THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS	THE RESERVE OF THE PERSON NAMED IN	15.1947	9,00	0,00	0.00	- C.O.
Return on Equity				7/3/4/	0.00	1 1 1 1 1 1 1
Cross Notional Equity		24.50	24.50	24.56	24.56	24.56
Opening Equity		21.56	24.56	24.56	24.56	24.50
Average Equity		24.56	24.56	24.56	24.50	24.50
Rate of Return on Equity		23,83%	23.83%	23.83%	23.83%	23.83%
Return on Equity	_	/s.A/s	5,85	5.85	5.85	5.83
Interest on Working Capital						
AND THE PROPERTY OF THE PROPER	15% of	708		11032	12525	624
Maintenance Spares	OWM	3.94	5.11	5.29	5.42	5,63
O&M Expenses		3.74 3.20	2.84	2.94 5.31	3.04	3.13
Hoccivables		3.20	5.35		5.67	-5.8
Total	0.000	12.88	13.30	13.73	14,18	14.6
Interest on Working Capital	13.50%	1.74	1.80	1.85	1.91	1.9
Annual Transmission Charges			A. Charles		-	
Depreciation		1.68	1.08	1.68	1.68	1.08
Interest on Loan		0.00	0.00	0.00	0.00	0.00
Return on Equity		5.85	5.65	5.85	5.65	5.65
Interest on Working Capital		1.74	1.80	1.85	1.91	1.9
O&M Expenses		32.90	54.06	35.26	36.50	37.77
Total	Contract	42.17	43.39	44.64	45.94	47.28
Norms for O&M per bay	400KV	32.15	33.28	34.45	35.66	36.9
Norms for OleM per lon	9/C	0.503	0.521	0.539	0.558	0.529

Financial Advisor and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTPANSCO, Vidyut Soudha, Hyderabad - 500 088

Chief Engineer/Commis MAC TSTFANSCO, Vidyut Boudhe, Hyderahad - 500 082.

CALCULATION OF ANNUAL TRANSMISSION CH Asset-IC (After LH-O)	200000				(Hs. In	lah hs)
400kV Kalapaka-Khammam -T (After 1.11-O) ACOBOKA		1 10000				10000000
CODS Rationalised cost of 400kv line (Rs. lakh per cki km) Transmission Line length in cki km No. of buys Multiplication Factor Life in years Voltage kv	10.05.2002 34 8.5 1 1 25 100	2003	wayyee ee a	(8500) (85		0300000
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Cirosa Block		289,00	289.00	289.00	289.00	289.0
Addition during FY 2019-20 to FY 2023-24			- Continue		-	
due projected additional capitalisation			- 41		-	
Gross Block Total		299.00	289.00	289.00	289.00	-289.0
Average Gross Block		289.00	289.00	289.00	289.00	289.0
		A STREET, SQUARE, SQUA	The second second	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	TO RESIDENCE	W0200
Depreciation		2.000	2.05%	2.05%	2.05%	2.059
Rate of depreciation	1000	2.05%	2.05%			260.10
Depreciable value	90%	260.10	260.10	260.10	260.10	
Elapsed life as on 31 03 2019	1////	16.00	17.00	18.00	19.00	20.0
Dalance useful life of the asset		9.00	8.00	7.00	5.00	5.0
Remaining depreciable value		52.82	46.90	40.97	35.05	29.1
Cumulative Depreciation		207.28	213,20	219.13	225.05	230.0
Depreciation		5.92	5.02	5.02	5.02	3.9
Interest on loan		100000	100000000	1000	1000000	
Gross Normative Loan		202.30	202.30	202.30	202.30	202.3
Cumulative repayment upto previous year		202.30	202.30	202.30	202.30	202.1
Net loan - opening		0.00	0.00	0.00	0.00	0.0
Addition due to additional capitalisation		0.00	0.00	0.00	0,00	0.00
Repayment during the year		0.00	0.00	0.00	0.00	0.00
Net lean : closing		0.00	0.00	0.00	0.00	0.0
Average Loan		0.00	0.00	0.00	0.00	0.0
Weighted average rate of interest on loan (%)		33,00%	31,00%	31.00%	11.00%	11,007
Interest		0.00	0.00	0.00	0.00	0.0
Return on Equity				21.000	1000000	-
Gross Notional Equity		86.70	86,70	86,70	86.70	86.7I
Opening Equity		86,70	86,70	86,70	80.70	86.7
Average Equity		86.70	86.70	86.70	86.70	86.7
Rate of Return on Equity		23,83%	23.83%	23.83%	23.83%	23.835
Return on Equity		20.66	20.66	20.00	20.66	20.6
Interest on Working Capital		110/1107	THE PERSON	N 101011	Charles States	100710
MINISTER SOLITABRIOR PRINCIPAL	15% of	2000	17.00		775257	
Maintenance Spares	CMM	5.96	6.15	6.37	6.59	6.8
OfeM Expenses		3.30	3.42	3.54	3.66	3.75
Hocetyables		8.40	8.04	H.H3	9.02	9.2
Total		17.71	18.22	16.74	19.28	19.6
Interest on Working Capital	13,50%	2.30	2.46	2.53	2.60	2.66
			The state of the s			
Annual Transmission Charges Depreciation		5,92	5.92	5.92	5.92	5.9
Interest on Loan		0.00	0.00	0.00	0.00	0.00
Return on Equity		20.66	20.66	20.66	20.66	20.6
Interest on Working Capital		2,30	2.46	20.66	2,60	20.6i
O&M Expenses		39.64	41.03	42.47	43.96	45.5
Total		- Charles and the Control of the Con				
regional de Ariana, regional de Ariana, entre de la Romana de Carlos Car	20000000	66.61	70.07	71,59	75.15	74.70
Norms for Olish per bay	400KV	32.15	33.28	34,45	30.66	36.9
Norms for O&M per km	13/C	0.881	0.912	0.914	0.977	1.01

Financial Adviser and Chief Controller of Accounts (Accounts) a Chief Financial Officer \$1-TSTRANSCO, Vidyut Souths, Hyderabad - 500 day.

Asset-III(After LILO) ((Rs. In	lakhs)
HREV Kalapaka-Khammam -II(After LILO)	1				A COMMITTEE	MARKATA A
COD: Rationalised cost of 400kv line (Rs. lakh per ckt ion) Fransmission Line length in ckt ion No. of bays Multiplication Factor Life in years Voltage kv	10.05.2002 34 1.21 1 1 25 400	2003				
Particulars	-	2019-20	2020-21	2021-22	2022-23	2023-24
Cross Black		4114.00	4114.00	4114.00	4114.00	4114.0
Addition during FY 2019-20 to FY 2023-24						
due projected additional capitalisation		-	-	4.	-	-
Gross Block Total		4114.00	4114.00	4114.00	4114.00	4114.0
Average Cross Block		4114.00	4114.00	4114.00	4114.00	4114.0
	and the same of			-	THE RESIDENCE	
Depreciation				7.00	0.000	2.000
Rate of depreciation		2.05%	2.05%	2.05%	2.05%	2.055
Depreciable value	90%	3702.60	3702.60	3702.60	3702.60	3702.6
Elapsed life as on 31.03.2019	- 5000	16.00	17.00	18.00	19.00	20.0
Balance useful life of the asset	-	9,00	8.00	7.00	6.00	5.0
Remaining depreciable value		7.38.40	054.13	569.79	485.45	401,1
Cumulative Depreciation		2964.14	3048.47	3132.81	3217.15	3301.4
Deprocution		84.34	64.34	84.34	84.34	84.3
Interest on loan				300000		100000
Gross Normative Loan		2879.80	2879.80	2879.80	2879.80	2879-8
Cumulative repayment upto previous year		2879.80	2879.80	2879.80	2879.80	2879.8
Not loan - opening		0.00	0.00	0.00	0.00	0.0
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.0
Repayment during the year		0.00	0.00	0.00	0.00	0.0
Net loan - closing		0.00	0.00	0.00	0.00	0.0
Average Loan		0.00	0.00	0.00	0.00	0.0
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	11.00%	11.005
Interest		0.00	0.00	0.00	0.00	0.0
Return on Equity	_	20500			-	
Gross Notional Equity	_	1234.30	1234.20	1234.20	1234.26	1214.3
Opening Equity	_	1231.20	1231.20	1234.20	1234.20	1231.2
Average Equity	_			1234.20	1234.20	
Average rightly		1234.20	1234.20			23.635
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83% 291.0e	Personal
Return on Equity		294,06	291.06	294.06	294,09	294.0
Interest on Working Capital						
	15% of	503098	100000	33333	02530	5277
Maustenance Aparen	CMEM	13.95	14.45	14.99	15.48	16.0
OleM Experimen	300/ASP 7/10	7.75	8.03	8.31	8.60	8.9
Receivables		59.47	59.90	60.55	60.79	61.2
Total		81.17	82.37	83,59	84,86	86.1
Interest on Working Capital	13,50%	10.96	11.12	11.28	11.46	11.6
Annual Transmission Charges		and the same of the same of	and the same of th	- Section 1	The state of the s	100
Depreciation		84.74	84.34	84.34	84.34	84.3
nterest on Loan		0.00	0.00	0.00	0.00	0.0
Leturn on Equity		291.06	294.06	294.06	2944.06	294.0
nierest on Working Capital		10.96	11.12	11.28	11.40	11.6
MiM Expenses		93.01	9n.32	99.67	103.18	106.8
Total		482.36	485.83	489,35	493,03	
and the latter of the latter o	400KV	32.15				496.8
Norms for OWM per bay			33.28	34,45	35.66	36.0
Norms for OMM per lon	5/C	0.503	0.521	0.539	0.558	0.57

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TETRANSCO, Vidyut Souths, Hyderabad - 500 082

A. a. hour of Chief Engineer/Commi & RAC FSTRANSCO, Vidyut Soudha. Hyderabad - 500 082.

CALCULATION OF ANNUAL TRANSMISSION CI Asset-IV&V:	HRAGIO				(Rs. In	tak bed
	WAPET-IN	H			Test III	
COD:	01.04,2013	2014				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	94.07					
Transmission Line length in ckt km	54.66					
No. of bays	2					
Multiplication Factor	1.39					
Life in years	28					
Voltage kv	400					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		7192.7A	7192.78	7192.78	7192.78	7192.7
Addition during FY 2019-20 to FY 2023-24						
due projected additional capitalisation		- 3	+		-	
Gross Block Total		7192.78	7192.78	7192.78	7192.78	7192.7
Average Gross Block		7192.78	7192.78	7192.78	7192.78	7192.7
Depreciation						
Rate of depreciation	10.77	5.28%	5.28%	5.28%	5.28%	5.289
Depreciable value	90%	6473.50	6473.50	6473.50	6473.50	6473.5
Elapsed life as on 31.03.2019		5.00	0.00	7.00	8.00	9.0
Balance useful life of the asset		20.00	19.00	18.00	17.00	16.0
Remaining depreciable value		4194.83	3815.05	3435.27	3055.49	2675.7
Cumulative Depreciation		2278.67	2658.45	3038.23	3418.01	3797.7
Depreciation		370.78	329.78	379.78	379.78	379.7
Interest on loan	4	- ACRES		-		
Cross Normative Loan		5034.95	5034.95	5034.95	5034.95	5034.9
Comulative repayment upto previous year		1808.80	2278.67	2658.45	3038.23	3418.0
Net loan - opening		3,136.05	2,756.27	2,376,49	1,996.72	1,016.94
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.0
Repayment during the year		379.78	379.78	379.78	379.78	379.7
Net loan - closing		2756.27	2376.49	1996.72	1616.94	1237.1
Average Loan		2916.16	2366.38	2186.61	1806.83	1427.0
Weighted average rate of interest on loan (%)		11.00%	11,00%	11.00%	11.00%	11,007
Interest		324.08	282.30	240.53	198.75	156.9
Keturn on Equity						
Gross Notional Equity		2157.83	2157,83	2157.83	2157.83	2157.8
Opening Equity		2157.83	2157.83	2157.83	2137.83	2137.8
Average Equity		2152.83	2157.63	2157.63	2157.83	2157.8
				23.83%		23.839
Return on Equity		514.12	514.12	514.12	514.12	514.1
Interest on Working Capital						
Majatonanos Spanier		46.44	100	Ver each		100
	CMENT			2,000,000		19.3
						10.7
	_	The second secon	The second secon	- I the later and the later an		178,5
10.30000	13.50%					24.1
The state of the s	40000	20112	2000	277.111	201100	2.4.1
	_	320.24	370.70	376772	2201201	379.7
	1					156.9
						514.1
						24.7
	1					129.0
	31000000					1204.0
Approximation of the Company of the	ACCRE V			4.001.01101.000		36.9
						1.01
Average Equity Return on Equity Interest on Working Capital Maintenance Spares O&M Expenses Receivables Total Interest on Working Capital Annual Transmission Charges Depreciation Interest on Loan Return on Loan Return on Equity Interest on Working Capital O&M Expenses Total Norms for O&M per bay Norms for O&M per bay	15% of CMAN 13.50% 13.50% 400KV D/C	2157,83 23,81% 514,12 16,87 9,37 167,25 193,49 26,12 379,78 324,08 514,12 26,12 112,46 1386,85 32,15 0,881	2137.63 21.63% 514.12 17.46 9.70 162.52 189.69 25.61 179.78 262.30 514.12 23.61 116.41 1316.22 3.3.28 0.912	2157.83 21.83% 514.12 18.07 10.04 187.82 188.93 25.10 379.78 240.53 514.12 25.10 120.50 1	2197.83 73.83% 514.12 18.71 10.39 155.12 182.23 24.60 379.78 198.75 514.12 24.60 124.72 1241.97 35.66 0.977	

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082.

Chiof Engineer/Commi & RAC TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082,

Attenhand

CALCULATION OF ANNUAL TRANSMISSION CHRAGES

Asset-VI & VII : 400 KV Srisatiam - Sattenapalli Cki I& II	1 1				-	
	23,10,2000	2000				
CODE	20.71	25,610				
Hammalised cost of 400kv line (Rs. lakb per cht km)	0.40					
Tronsmission Line length in ckt km	0.10					
No. of buys	100000000000000000000000000000000000000					
Multiplication Factor	1.39					
Life in years	25					
Voltage kv	400		2020.21	100 N N T	90000 NO. 1	2023-24
Particulars	1.000	2019-20		2021-22	2022-23	
Gross Block		11.51	11.51	11.51	11.61	11.51
Addition during FY 2019-20 to FY 2023-24						
due projected additional capitalisation		-	A CONTRACTOR		47.5	
Gross Block Total		11.51	11.51	11.51	11.51	11.51
Average Circus Block		11.51	11.51	11.51	11.51	11,51
Depreciation	-	1,000				
Rate of depreciation		2.00%	2.05%	2.08%	2.05%	2,05%
Depreciable value	90%	10.36	10.36	10.36	10.56	10.36
Elapsest life as on 31.03,2019	***************************************	19.00	20.00	21.00	22.00	25.00
Dalance useful life of the asset		6.00	5.00	4.00	3.00	2.00
Remaining depreciable value		1.18	0.91	0.71	0.47	0.23
Camulative Depreciation		0.18	9.47	9.66	0.80	10.13
Depreciation		0.24	0.24	0.24	0.24	0.74
Interest on Joan			1,191		11000	
Cirosa Normative Loan		8.06	8.06	8.06	8.06	9.00
Cumulative repayment upto previous year		8.06	8.00	8.06	8.06	8.00
Sor loan - opening		0.00	0.00	0.00	0.00	0.00
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.00
Repayment during the year		0.00	0.00	0.00	0.00	0.00
Net loan - cleang		0.00	0.00	0.00	0.00	0.00
Average Loan		0.00	0.00	0.00	0.00	0.00
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	11.00%	11.00%
Interest		0.00	0.00	0.00	0.00	0.00
Return on Equity			111111111111111111111111111111111111111			
Circos Sotional Equity		3.45	3.45	3.49	3.45	3.43
Opening Equity		3.45	3.45	3.45	3.45	3.45
Average Equity	_	3.45	3.45	3.45	3.45	3.4
Rate of Return on Equity	_	23 83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		0.82	0.82	0.82	0.62	0.83
Interest on Working Capital			-			
THE STATE OF THE S	15% of					
Maintenance Spares	O&M	0.70	10.04	10.30	10.76	13.13
CM-M Expenses	120000	5.19	19.798	0.27	3.98	6.1
Receivables		8.50	8.79	9.09	9.41	9.7
Total		23.58	24.41	25.26	26.14	27.00
Interest on Working Capital	13.50%	3.18	3.29	3.41	3,53	3.63
Annual Transmission Charges						
Deprestation		0.24	0.24	0.24	0.24	0.2
Interest on Loan		0.00	0.00	0.00	0.00	0.00
Return on Equity		0.82	0.82	0.62	0.82	0.83
Interest on Working Capital		3.18	3.29	3.41	3.53	3.63
CM/M Expenses		04.65	00.92	69.28	71.71	74.2
Total	55,90000	68,90	71.28	23.25	76.30	78.94
Norms for OfeM per bay	400KV	32.15	33.28	34.43	35.66	36.9
Norms for OfeM per km	D/C	0.881	0.912	0.944	0.977	1.01

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082

Chief Engineer/Commt & RAC TSTRANSCO, Vidyut Soudha, Hyderahad - 500 062,

A. w. hound

CALCULATION OF ANNUAL TRANSMISSION Assot-VIII:	(Ra. In lakhs)						
220 KV Lower Sileru - KTPS - 1							
CODE	31.03.1962	1067					
Rationalised cost of 400kv line (Rs. lakh per ckt km)	0						
Fransmission Line length in ckt km	81.00						
No. of bays	354020						
Multiplication Factor	0.36						
Life in years	29						
Voltage kv	230						
Particulars	2371	2019-20 1	2020-21	2021-22	2022-23	2023-24	
		0.00	0.00	13.081	0.00	0.00	
Gross Block		0.00	0.00	12,0,00	0.00	17.07	
Addition during FY 2019-20 to FY 2023-24	1 1	- 2		23	1/45		
due projected additional capitalisation		-	2	4.1		1000	
Gross Block Total		0.00	0.00	0.00	0.00	0.00	
Average Gross Block		0.00	0.00	0.00	0.00	0.0	
Depreciation							
Rate of depreciation							
Depreciable value	90%	0.00	0.00	0.00	(0.00)	0.0	
Elapsed life as on 31.03.2019	30.4	0.00	0.00	0.00	0.00	0.0	
		0.00	0.00	0.00	0.00	0.0	
Balance useful life of the asset	_	0.00	0.00	0.00	0.00	0.0	
Remaining depreciable value	_	0.00	0.00	0.00	0.00	0.0	
Cumulative Depreciation	_	45-440		0.00	0.00	63.03	
Depreciation		0.00	0.00	0.00	0.00	17.0	
Interest on loan		50,000	W.J.C.	- 32.55	GWARD C	4.00	
Gross Normative Loss		0.00	0.00	0.00	0.00	0.0	
Cumulative repayment upto previous year		0.00	0.00	0.00	0.00	0.0	
Net loan - opening		0.00	0.00	0.00	0.00	0.0	
Addition due to additional capitalisation		0.00	0.00	(1.00)	0.00	0.0	
Repayment during the year		0.00	0.00	(3 (3)	0.00	0.00	
Not loan - closing		0.00	0.00	0.00	0.00	0.0	
Average Loan		0.00	0.00	0.00	0.00	0.0	
Average tales	_	11.00%	11.00%	11.00%	11.00%	11.005	
Weighted average rate of interest on loan (%) Interest	_	0.00	0.00	0.00	0.00	0.0	
EXCHANGE THE PARTY OF THE PARTY		4010	0.00				
Return on Equity	1	11,000	111 111 1111				
Gross Notional Equity		0.00	0.00	0.00	0.00	0.0	
Opening Equity		0.00	.0.00	0.00	0.00	0.0	
Average Equity		0.00	0.00	0.00	0.00	0.0	
Rate of Return on Equity		23.85%	25.63%	23.83%	23.83%	23.837	
Return on Equity		0.00	0.00	0.00	0.00	0.0	
Interest on Working Capital		-	-				
Andrew Control of the Prince	15% of						
Maintenance Spares	OMM	6.44	0.05	6.90	7.13	2.3	
O&M Expenses	2,38172	3.58		3.63	3.96	4.11	
Receivables		5.53	3.70 5.74	5.95	0.15	6.5	
Total		15.57	16.09	16.68	17.25	17.8	
Interest on Working Capital	13,90%	2.10	2.17	2.25	2.33	2.4	
The same of the state of the st	100000000000000000000000000000000000000	-		-	-		
Annual Transmission Charges							
Depreciation		0.00	0.00	0.00	0.00	0.0	
Interest on Loan		0.00	0.00	0.00	0.00	0.0	
Return on Equity		0.00	0.00	0.00	0.00	0.0	
Interest on Working Capital		2.10	2.17	2.25	2.33	. 2.4	
O&M Expenses		42.92	44.36	45.99	47.56	49.2	
Total	1000000000	45.02	46.53	48.24	49,89	51.6	
Norms for Of, M per bay	220KV	22.51	23.30	24.12	24.96	25.6	
Norms for O&M per km	5/C	0.252	0.260	0.270	0.279	0.28	

Chief Financial Officer
TBTRANSCO, Vidyut Souths,
Hyderabad - 500 GR2.

Chief Engineer/Commi & PAG TETRANSCO, Vidyot Soudha, Hyderabad - 500 002.

CALCULATION OF ANNUAL TRANSMISSION Assot-IX:	CHRAGES				(Re. In l	akhs)
220 KV Lower Silera - KTPS - II						The state of the s
COD:	31.03.1929	1979				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	0					
Transmission Line length in ckt km	25.00					
No. of bays	1					
Multiplication Factor	0.36					
Life in years	25					
Vultage lev	1				20000000	
Particulars		2019-20	2020-21	2021-22	2022-25	2023-24
Cross Block		0.00	0.00	0.00	0.00	0.00
Addition during FY 2019-20 to FY 2023-24						
due projected additional capitalisation		0.000	27000			1140
Cirosa Block Total		0.00	0.00	0.00	0.00	.0.18
Average Gross Block		0.00	0.00	0.00	0.00	0.00
Depreciation						
Rate of depreciation						
Depresable value	90%	0.00	33.00	0.00	0.00	0.00
Elapsed life as on 31.03.2019	10.70	0.00	0.00	0.00	0.00	0.00
Balanco useful life of the asset		0.00	0.00	0.00	0.00	0.00
Remaining depreciable value		0.00	0.00	0.00	0.00	0.00
Consulative Depreciation		0.00	0.00	0.00	0.00	0.00
Depreciation		0.00	0.00	0.00	0.00	0.00
VIII S CONTRACTOR OF THE STATE		- AMERICAN AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRE			-	
Interest on loan	_	0.00	0.00	0.00	0.00	0.00
Cross Normative Loan	_	0.00	0.00	0.00	0.00	13.00
Cumulative repayment upto previous year	_	0.00	0.00	0.00	0.00	0.00
Net loan - opening	_	0.00	0.00	0.00	0.00	0.00
Addition due to additional capitalisation Repayment during the year	_	0.00	0.00	0.00	0.00	0.00
Not loan - closing	_	0.00	0.00	0.00	0.00	D (H)
Average Laura	_	0.00	0.00	0.00	0.00	0.00
Weighted average rate of interest on loan (%)	_	11.00%	11.00%	11.00%	11.00%	11.00%
Interest		0.00	0.00	0.00	0.00	0.00
Return on Equity			the latest terms of the			
Gross Notional Equity		0.00	0.00	0.00	0.00	0.00
Opening Equity		0.00	0.00	0.00	0.00	0.00
Average Equity		0.00	0.00	0.00	0.00	0.00
Rate of Return on Equity		23.63%	23.63%	25.85%	23.83%	23.83%
Return on Equity		0.00	0.00	0.00	0.00	0.00
Interest on Working Capital						
	15% of					
Maintenance Spares	CMFM	4.32	4.47	4.63	4:29	4.06
OleM Expenses	0,000,00	2.40	2.48	2.67	2.66	2.76
Receivables		3.23	3.85	3,99	4.13	4.28
Total		10.45	10.81	11,20	11.58	11.99
Interest on Working Capital	13.50%	1.41	1.40	1.51	1.56	1.62
Annual Transmission Charges						
Depreciation		0.00	0.00	0.00	0.00	0.00
Interest on Loan		0.00	0.00	0.00	0.00	0.00
Return on Equity		0.00	0.00	0.00	.0.00	0.00
Interest on Working Capital		1.41	1.46	1.91	1.56	1.69
CMM Expenses		28.81	29.80	-30.82	31.94	33.07
Total	1. 3850-2511	30.22	31.26	32.38	33.50	34.68
Norms for O&M per bay	220KV	22.51	23.30	24.12	21.96	25.84
Norms for O&M per km	5/C	0.252	0.260	0.220	0.229	0.289

Financial Advisor and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabod - 500 082.

Chief Engineer/Commit & RACI TETRANSICO, Vidyur Soudha. Hyderated - 500 062.

Assot-X & XI:	(Rs. In lakhs)						
220 KV Srisailam - Dindi - I					0)475-3740	317/3173	
COD: Rationalised cost of 400kv line (Rs. lakh per ckt km) Transampsion Line length in ckt km No. of bays	13,09,1982 0 80,00 1	1983					
Multiplication Factor	0.57						
Life in years	25						
Voltage kv	220						
Particulars		3019 30	3030-31	2021-22	2022-23	2023-24	
Gross Block		0.00	0.00	0.00	0.00	0.0	
Addition during FY 2019-20 to FY 2023-24	_	0.00	20100	0.00	0.00	10000	
			- 2				
this projected additional capitalisation	_	70,000	0.00	0.00	0.00	0.0	
Cross Block Total		0.00	3003030	3013030	1/2015/20		
Average Gross Block		0.00	0.00	0.00	0.00	0.0	
Depreciation							
Rate of depreciation							
Depres table value	90%	0.00	0.00	0.00	0.00	0.0	
Dapsed life as on \$1.05,2014	99778	0.00	0.00	0.00	0.00	0.0	
Balance useful life of the asset		0.00	0.00	0.00	0.00	0.0	
Remaining depreciable value		0.00	0.00	0.00	.0.00	0.0	
Cumulative Depreciation		0.00	0.00	0.00	0.00	0.0	
Depreviation		0.00	0.00	0.00	0.00	0.0	
A CONTRACTOR OF THE PARTY OF TH	_	100000	THE RESERVE	100000			
Interest on loan		0.00	2710	70700	0.00	200	
Gross Normative Loan		0.00	0.00	0.00		0.0	
Cumulative repayment upto previous year		0.00	0.00	0.00	0.00	.0.0	
Not have opening		0.00	0.00	0.00	0.00	0.0	
Addition due to additional capitalisation		.0.00	0.00	0.00	0.00	0.0	
Repayment during the year		0.00	0.00	0.00	0.00	0.0	
Net loan - closing		0.00	0.00	0.00	0.00	0.0	
Average Loan		0.00	0.00	0.00	0.00	0.0	
Weighted average rate of interest on loan (%)		0.08%	0.08%	0.08%	0.98%	9.982	
Interest		0.00	0.00	0.00	0.00	0.0	
Return on Equity							
Circus Notional Equity	_	0.00	0.00	0.00	0.00	0.0	
Opening (squity	_	0.00	0.00	0.00	0.00	0.0	
Average Equity		0.00	0.00	0.00	0.00	0.0	
Rate of Beturn on Equity		23.76%	23.70%	23.70%	23.70%	25,835	
Return on Equity		0.00	0.00	0.00	0.00	0.0	
Interest on Working Capital							
	15% of						
Maintenance Spares	OWM	8.18	8.10	8.47	6.77	9.0	
OfeM Experience		4.55	4.799	4.70	4.87	36.05	
Heretrables		7.06	7.06	7.30	7.56	7.8	
Letal		19.78	19.80	20.47	21.21	21.9	
Interest on Working Capital	13.50%	2.67	2.67	2.76	2.86	2.00	
Annual Transmission Charges	and the same of	-		-			
Depreciation	_	0.00	0.00	0.00	0.00	0.0	
Interest on Loan		0.00	0.00	0.00	0.00	0.0	
Return on Equity	_	0.00	0.00	0.00	0.00	0.0	
Interest on Working Capital	_		40.000	2.76	20,000		
	_	247	2.67		2.86	2.9	
OleM Expenses			94.98	56.44	58.48	60.4	
Total	LICATO AND	57.22	57.25	59.20	61.34	63.4	
Norms for O&M per bay	- P20KV	22.51	23.30	24.12	21.06	25.8	
Norms for OfeM per kin	D/C	0.377	0.391	(1.404)	0.419	0.43	

Financial Advisor and Onief Centroller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Stoudha, Hyderabad - 500 082

Chief Engineer/Commt & RAG TSTRANSCO, Vioyut Boudha, Hyderabad - 500 062.

CALCULATION OF ANNUAL TRANSMISSION CHRAGES Asset-XII:

CALCULATION OF ANNUAL TRANSMISSION Assot-XII:	CHEACHE				(Rs. In I	akfin)
220 KV Tallapalli - Nagarjunasagar - III					1000000	11/11/2
COD: Rationalised cost of 400kv line (Ra. lakh per clet km) Transmission Line length in clet km No. of bays Multiplication Factor Life in years	27.01.1985 0 4.00 1 0.36 25	1986				
Voltage hv	220					
Particulars	50000	2019-20	2020-21	2621.22	2022-23	2023-24
Ciruss Illinch		0.00	0.00	0.00	0.00	0.00
Addition during FY 2019-20 to FY 2023-24						10/50/0
due projected additional capitalisation						
Gross Block Total		0.00	0.00	0.00	0.00	0.00
Average Gross Block		0.00	0.00	0.00	0.00	0.00
Manager Control of the Control of th	-					
Depresiation	-	_				
Rate of depreciation	90%	0.00	0.00	0.00	0.00	0.00
Depreciable value Clapsed life as on 31.03.2019	90.76	0.00	0.00	0.00	0.00	0.08
Balance useful life of the asset	_	0.00	0.00	0.00	0.00	0.00
Remaining depreciable value	_	0.00	0.00	0.00	0.00	0.00
Cumulative Depreciation	_	0.00	0.00	0.00	0.00	0.00
Depresiation		0.00	0.00	0.00	0.00	0.00
THE RESIDENCE OF THE PROPERTY OF THE PERSON		-	10000040	100000000000000000000000000000000000000		
Interest on loan			-			700 000
Gross Normative Loan		0.00	0.00	0.00	0.00	0.00
Cumulative repayment upto previous year		0.00	0.00	0.00	0.00	0.00
Net foar apening	-	0.00	0.00	0.00	0.00	0.00
Addition due to additional capitalisation	_	0.00	0.00	0.00	0.00	0.00
Repayment during the year Net loan - closing	_	0.00	0.00	0.00	0.00	0.00
Average Laun	_	0.00	0.00	0.00	0.00	0.00
Weighted average rate of interest on loan (%)	_	11.00%	11.00%	11.00%	11.00%	17.3875
Interest		0.00	0.00	0.00	0.00	0.00
DECEMBER CONTROL OF THE PARTY O	-	The state of the s		1	1000	
Return on Equity		-	70.00	-		-
Cross Notional Equity		0.00	0.00	0.00	0.00	0.00
Opening Equity	-	0.00	0.00	0.00	0.00	0.00
Average Equity Rate of Return on Equity	_	23.83%	23.63%	23.83%	23.83%	23.63%
Return on Equity	_	0.00	0.00	0.00	0.00	23.83%
CONTRACTOR	-	- 0.00	0.00	0.00	0.00	.0.00
Interest on Working Capital						
	15% of		41.19			
Maintenance Sipares	OWM	3.53	3.65	3.78	3.01	4.06
OM-M Expenses		1.96	9.03	2.10	2.17	5.98
Receivables	_	3.04	3.15	3.26	3.37	3.49
Total	77.000	16.503	8.83	9,14	9.46	9.79
Interest on Working Capital	13.50%	1.13	1.10	1.28	1.29	1.32
Annual Transmission Charges	-					
Depreciation		0.00	0.00	0.00	0.00	0.00
Interest on Loan		0.00	0.00	0.00	0.00	0.00
Return on Equity		0.00	0.00	0.00	0.00	0.00
Interest on Working Capital		7.15	1.19	1,23	1.28	1.32
OMeM Expurises		23.82	24.34	25.20	26.08	27.00
Total	190,0000	24.67	29.53	26.43	27.38	28.32
Norms for Ofeld per bay	220KV	22.51	23,30	24.12	24.96	28.84
Norms for Okeld per len	5/C	0.252	0.260	0.270	0.279	0.289

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082.

Girel Engineer/Commit & AAC TBTRANSCO, Vidyut Soudha, Hydrinbod - 500 082.

CALCULATION OF ANNUAL TRANSMISSION Asset-XIII & XIV :	CHRAGES				(Rs. In L	aktus)
220 KV Tallapalli - Nagarjunanagar - I fe II	1					
COD	05.08.1985	1986				
Entionalised cost of 400kv line (Rs. takh per ckt km)	0					
Transmission Line length in ckt km	2.10					
No. of bays	2					
Multiplication Factor	0.57					
	25					
Life in years	220					
Voltage ky	860	2019 20	2020-21	2021-22	2022.23	3021-24
Particulars		0.00	0.00	0.00	0.00	0.00
Gross Block	-	0.00	0.00	17.570	0.00	
Addition during FY 2019-20 to FY 2023-24						
due projected additional capitalisation		4	0.00	0.00	0.00	0.00
Gross Block Total		0.00	and the behavior		The second secon	97,711
Average Circus Block		0.00	0.00	0.00	0.00	0.00
Depreciation		1000				
Rate of depreciation		-	7.0.404	.0.00	21.7075	0.00
Depreciable value	90%	0.00	0.00	0.00	0.00	0.00
Elapsed life as on 31.03.2019		0.00	0.00	0.00	0.00	(1.1)
Balance useful life of the asset		0.00	0.00	0.00	0.00	0.00
Remaining depreciable value		0.00	0.00	0.00	0.00	0.00
Cumulative Depreciation		0.00	0.00	0.00	0.00	0.00
Depreciation		0.00	0.00	0.00	0.00	0.00
Interest on Joan						100
Cries Normative Loan		0.00	0.00	0.00	0.00	0.00
Cumulative repayment upto previous year		0.00	0.00	0.00	0.00	0.00
Net loan - opening		0.00	0.00	0.00	0.00	0.00
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.00
Repayment during the year		0.00	0.00	0.00	0.00	0.00
Net loan closing		0.00	0.00	0.00	0.00	0.00
Average Loan		0.00	0.00	0.00	0.00	0.00
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	11.00%	11.00%
Interest		0.00	0.00	0.00	0.00	0.00
Return on Equity						
Gross Notional Equity		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00
Opening Equity Average Equity		0.00	0.00	0.00	0.00	0.00
Rate of Return on Equity		23.83%	23.83%	27.87%	23.83%	23.83%
Return on Equity		0.00	0.00	0.00	0.00	0.00
Interest on Working Capital						
	15% of					
Maintenance Spares	C16/N1	7.03	- 2.28	7.53	7.80	8.00
CMrM Expenses		3.91	4.04	4.19	4.33	4.4
Heretvaldes		6.06	6.28	6.50	6.72	6.96
Total		17.00	17.60	18.22	18.85	19.91
Interest on Working Capital	13,50%	2.29	2.38	2.46	2.54	2.6
Annual Transmission Charges						
Depreciation		0.00	0.00	0.00	0.00	0.00
Interest on Lean		0.00	0.00	0.00	0.00	0.00
Return on Equity		0.00	0.00	0.00	0.00	0.00
Interest on Working Capital		2.29	2.38	2.46	2.54	2.6
O&M Expenses		46.87	48.57	50.22	51.97	53.90
Total	334,540,54	49.17	50.69	52.68	54.52	56.4
Norma for CM-M per bay	220EV	22.51	23.30	24.12	24.96	25.8
Norms for Otch per lim	D/C	0.881	(1913)	0.911	0.027	1.01

Chief Financial Advisor and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyul Soudha, Hyderatiad - 500 082,

Chief Enginser/Commi & RAC TSTRANSCO, Vidyut Soudha Hyderabad - 500 082,

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CALCULATION OF ANNUAL TRANSMISSION Asset XV ((Re. In lakha)						
220 KV N Sagar Receiving Station - Scinailam (SC) L	ine	10.02407			11000000		
COD	07.02.1989	1989					
Kationalised cost of 400kv line (Rs. takh perickt km)	0						
Transmission Line length in ckt km	4.00						
No. of bays	(2.90)						
Multiplication Factor	0.36						
	29						
Life in years							
Voltage kv	220				The state of the s	2000 00	
Particulars	1 - 21/07/20	2019-20	2020-21	2021.22	2022-23	2023-24	
Gross Black		0.00	0.00	0.00	0.00	0.00	
Addition during FY 2019-20 to FY 2023-24							
due projected additional capitalisation		(V, 65.7)		10,40,00	1,2.19		
Cross Block Total		0.00	0.00	0.00	0.00	0.00	
Average Cross Block		0.00	0.00	0.00	0.00	0.00	
Manual Company of the	-	0.00		-			
Depreciation							
Rate of depreciation							
Depresciable value	90%	0.00	0.00	0.00	0.00	0.00	
Elapsed life as on 31.03,2019		0.00	0.00	0.00	0.00	0.00	
Dalarwe useful life of the asset		0.00	0.00	0.00	0.00	0.00	
Remaining depreciable value		0.00	0.00	0.00	0.00	0.00	
Cumulative Depreciation		0.00	0.00	0.00	0.00	0.00	
Depresation		0.00	0.00	0.00	0.00	0.00	
A CONTRACTOR OF THE PARTY OF TH	-	- E 5250	THE REAL PROPERTY.	110000			
Interest on lean		0.00	0.00	0.00	0.00	0.00	
Ciross Normative Loan							
Cumulative repayment upto previous year		0.00	0.00	0.00	0.00	0.00	
Not loan - opening		0.00	0.00	0.00	0.00	0.00	
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.00	
Repayment during the year		(3.00)	0.00	0.00	0.00	- 0.00	
Net loan - closing		0.00	0.00	0.00	0.00	0.00	
Average Liun		0.00	0.00	0.00	0.00	0.00	
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	31.00%	33,00%	
Interest		0.00	0.00	0.00	0.00	0.00	
	THE RESERVE OF THE PARTY OF THE	10000	THE RESERVE OF	-			
Return on Equity		100000	2000	2.44	10.7010	1000	
Gross Notional Equity		0.00	0.00	0.00	0.00	0.00	
Opening Equity		0.00	0.00	0.00	0.00	0.00	
Average Equity		0.00	0.00	0.00	0.00	0.00	
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%	
Return on Equity		0.00	0.00	0.00	0.00	0.00	
Interest on Working Capital							
Million St. Francisco Company	15% of						
Maintenance Spares	O&M	3.53	3.65	3.78	3.01	4.05	
O&M Expenses	100000	3.53	2.03	2.10	2.12	3.20	
Receivables		3.04	3.15	3.26	3.37	3.49	
Total	_	8.53	8.83	9.14	9.46	9.79	
The state of the s	13,50%	1.19	1.19	1.25	1.28	1.30	
Interest on Working Capital	13.90%	1,137	1.10	1,42	1,28	1.00	
Annual Transmission Charges							
Depreciation		0.00	0.00	0.00	0.00	.0.00	
Interest on Loan		0.00	0.00	0.00	0.00	0.00	
Return on Equity		0.00	0.00	0.00	0.00	0.00	
Interest on Working Capital		1.13	1.14	1.23	1.29	1.3	
OdeM Expenses		23.52	24.34	25.20	26.08	27.00	
Total		24.67	25.53	26.43	27.35	28.3	
Norms for O&M per bay	220KV	22.51	23.30	24.12	24.96	25 K	
Norms for O&M per km	8/C	- EVIII-0-	0.260	0.270	0.279	0.28	
isomo for Carat per sin	0/30	0.252	0.200	0.270	0.479	0.28	

Pinancial Adviser and Chief Centroller of Accounts (Accounts) & Chief Financial Office) TSTRANSCO, Vidyut Soudha, Hyderahad - 500 062.

Alichand Chief Engineer/Commit & FLAC TSTRANSCO, Vidyut Soudha, Nyderabed - 500 082.

CALCULATION OF ANNUAL TRANSMISSION Asset-XVI:	CHRACIO				(Rs. In l	akhs)
220 KV Nunna - KTPs	1 1					
COD: Rationalised cost of 400kv line (Ra. lakh per ckt km) Transmission Line length in ckt km No. of bays Multiplication Factor Life in years Voltage kv	21.01.1992 29.69 64.49 1 0.36 25 220	1992			100000000000000000000000000000000000000	
Particulars		2019-20	3020-21	2021-22	2023-23	2023-24
Gross Block		0.00	0.00	0.00	0.00	0.0
Addition during FY 2019-20 to FY 2023-24						
due projected additional capitalisation		V07000	170.00	0.00	1,000.0	1000
Gross Block Total		0.00	0.00	0.00	0.00	0.0
Average Gross Block		0.00	0.00	0.00	0.00	0.0
TO STATE OF THE PARTY OF THE PA		The state of the last	1000	-	1000	-
Depreciation	1000	0.00%	0.00%	0.00%	0.00%	0.00%
Rate of depreciation Depreciable value	90%	0.00	0.00	- 0.00	0.00	0.00%
Dapsed life as on 31.03.2019	907%	27.00	28.00	29.00	30.00	31.00
Balanco useful life of the asset	_	0.00	0.00	0.00	0.00	0.0
Remaining depreciable value	_	0.00	0.00	0.00	0.00	0.0
Cumulative Deprecution		0.00	0.00	0.00	0.00	0.0
Depreciation		0.00	0.00	0.00	0.00	0.0
	_	100000000000000000000000000000000000000	-	10000	1000000	B 100000
Interest on Ioan Gross Normative Loan	_	0.00	77 795	65.705	0.00	0.00
Cumulative repayment upto previous year	_	0.00	0.00	0.00	0.00	0.00
Net loan - opening	_	0.00	0.00	0.00	0.00	0.0
Addition due to additional rapitalisation	_	0.00	0.00	0.00	0.00	0.08
Repayment during the year	_	0.00	0.00	0.00	0.00	0.00
Not han a closing		0.00	0.00	0.00	0.00	0.00
Average Loan		0.00	0.00	0.00	0.00	0.00
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	11.00%	11.00%
Interest		0.00	0.00	0.00	0.00	0.00
Beturn on Equity	-	-				
Gross Notsonal Equity		0.00	0.00	0.00	0.00	0.00
Opening Liquity	_	0.00	0.00	0.00	0.00	0.00
Average Equity	_	0.00	0.00	0.00	0.00	0.0
Rate of Return on Equity		2181%	2585%	23.83%	21.81%	21,815
Return on Equity		0.00	0.00	0.00	0.00	0.00
NOT CLASS THE WARRIES WORLD WARRIES TO THE	_					
Interest on Working Capital	15% of					
Major manage Course	10% of CM/M	5.61	6.01	6.23	6.44	200
Maintenance Spares O&M Expenses	CHO	3.23	3.34	3.46	3.58	6.65
Receivables	_	5.01	5.18	5.37	3.55	5.79
Total		14.05	14.53	15.06	15.57	16.1
Interest on Working Capital	13.50%	1.90	1.96	2.03	2.10	2.18
THE RESIDENCE OF THE PERSON OF	and the last owner, the last owner, the	-		-	-	-
Annual Transmission Charges						
Depreciation Interest on Loan		0.00	0.00	0.00	0.00	0.00
Return on Equity	_	0.00	0.00	0.00	0.00	0.00
Interest on Working Capital		1.50	1.96	2.03	2.10	2.10
Off M Expenses	_	38.75	40.06	41.82	47.94	44.47
Total		40.65	42.02	43.55	45.04	40.0
Norms for O&M per bay	220KV	22.51	23.30	24.12	21.96	25.84
Norms for O&M per los	8/C	0.040	(1.260)	0.270	11.979	0.286
AND				1000000		

Find less Advisor and Chief Controller of Accounts (Accounts) 8. Chief Financial Officer TSTRANSCO, Vidyut Soudha. Hydorahart - 500 062

Oblef Engineer/Commi & PAC TSTEANSCO, Vidyor Southal, Hyderabed - 500 362,

CALCULATION OF ANNUAL TRANSMISSION Assot-XVII:	e i i i i i i i i i i i i i i i i i i i				(Rs. In I	akhu)
220 kV Tandur - Sedam						14 V V V V V V V V V V V V V V V V V V V
COD: Rationalhed cost of 400kv line (Rs. lakh per cht km) Transmission Line length in ckt km No. of bays No. of bays Life in years Voltage kv	28.02.2001 54.57 33.60 1 0.36 28 29	2001				
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		660.08	660.08	660.08	000.08	000.0
Addition during FY 2019-20 to FY 2023-24	_	Describer	Henrister	. 600.00	. (0,07,100	70000110
due projected additional capitalisation						
Gross Block Total	_	660.08	660.08	660.08	660.08	560.0
Average Ciross Block	_	660.08	60.08	000.08	660.08	660.0
Average tiress Block		660.08	660.08	timer.cm	660.00	860.0
Depreciation	7					
Rate of depreciation		2.05%	2.05%	2.05%	-2.05%	2.099
Depreciable value	90%	594.07	594,07	594.07	594.07	594.0
Edapsed life as on 31.03.2019	7000000	18.00	19.00	20.00	21.00	22.0
Balance useful life of the asset		7.00	6.00	5.00	4.00	3.0
Remaining depreciable value		#1.12	67.59	54.06	40.53	27.0
Cumulative Depreciation		912.09	(c)n, 48	540.01	555.54	567.15
Depreciation		13.53	13.53	13.53	13.53	13.5
Interest on Ioan		-				
Grows Normative Loan	_	402.00	462.06	162.06	462.06	467.0
Comulative repayment upto previous year		462.06	462.06	462 06	4n2.0n	462.0
Not loan - opening	_	0.00	0.00	(3.00)	13.00	0.0
Addition due to additional capitalisation	_	0.00	0.00	0.00	0.00	0.0
Repayment during the year		0.00	0.00	0.00	0.00	0.0
Nort foars a lensing	-	0.00	0.00	0.00	0.00	0.0
Average Luan		0.00	0.00	0.00	0.00	0.0
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	11.00%	11.005
Interest		0.00	0.00	0.00	0.00	0.0
			THE RESERVE AND PERSONS NAMED IN		-	
Return on Equity		-	-		70000000	Visioni
Gross Notional Equity		198.02	198.02	198.02	198.02	198.0
Opening Equity		198-02	198.02	198.02	198.02	198.0
Average Equity		198.02	198.02	198.02	198.02	198.0
Kate of Return on Equity		27.87%	21,83%	23.83%	23.83%	23.835
Keturn on Equity		42.18	47.18	47.18	47.18	47.11
Interest on Working Capital						
	- 10% of					
Maintenance Spares	CMM	4.63	4.51	4.98	5.15	5.3
OleM Expenses		2.58	2.67	4.98 2.77	2.80	2.9
Marconiables		11.62	11.76	11.01	12.06	12.2
Lotal		18.85	19.23	19.65	20.07	20.5
Interest on Working Capital	13.50%	2.54	2.60	2.65	2.71	2.7
Annual Transmission Charges	-	1000000000	-	The same of the sa	A STATE OF THE PERSON NAMED IN	
Depreciation		13.50	13.53	33.55	33.53	13.5
Interest on Loan	1	0.00	0.00	0.00	0.00	0.0
Return on Equity	_	47.18	47.18	47.18	47.18	47.1
Interest on Working Capital		2.51	2.60	2.65	3.71	
OfeM Experience		30.98	32.04	33.19	2.71	2.7
Total	_	94.23	93.34	90.50	97.78	99.0
AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	7550000	22.51	23.50	1,27,091,071	24.96	25.8
Norms for O&M per bay	220KV	0.252	0.360	24.12		0.38
Norms for O&M per km	5/1	0.257	0.260	0.270	0.279	11.506

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082

Chief Engineer/Commi & RAC TETFANECO, Vioyut Soudha, Hyderabed - 500 082.

Asset-XVIII:	CONTRACTOR .				(its. to I	akha)
220 KV Tallapalli - Chalakurthy					(0.540,000)	00000
CODI	21.07,2007	2008				
Entionalised cost of 400kv line (Hs. lakh per cht km)	47.04					
Transmission Line length in cht km	27.40					
No. of bays	1 1					
Multiplication Factor	0.36					
Life in years	29					
Voltage kv	220			- NASA - 1	2000 No. 1	10000 100
Particulars	1 1/1/1/	2019-20	26261-23	2021-22	2022-23	2023-24
Cirons Block		464.00	161.00	464.00	464.00	364.00
Addition during FY 2019-20 to FY 2023-24						
due projected additional capitalisation		-	200	1000	1111111111	200
Gross Block Total		963.00	464.00	464.00	464.00	161.00
Average Gross Block		464.00	464.00	464.00	464.00	464.00
Depreciation						
Rate of dependation		5,28%	2.05%	2.05%	2.05%	2.03%
Depreciable value	90%	417.60	417.60 12.00	417.60	417.60	417.60
Elapsed life as on 31.03.2019	0.000	11.00		13.00	14.00	15.00
Dalance useful life of the asset		14.00	13.00	12.00	11.00	10.00
Remaining depreciable value		123.61	114.10	104.59	95.07	R5:54
Cumulative Depreciation		293.99	303.50	313.02	322.53	332.04
Depreciation		24.50	9.51	9.91	9.31	9.5)
Interest on Ioan		7,77,70				10000
Gross Normative Loan		324.80	321.80	A24.80	524.80	324.80
Cumulative repayment upto previous year		266.49	293.99	3653,507	313.02	322.57
Net loan - opening		95.31	30.81	21.30	11.79	2.27
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.00
Repayment during the year		24.50	9.51	9.93	9.51	2.27
Net loan - clowing		30.81	21.30	11.79	3.27	0.00
Average Loan		43,00	26.00	10.54	7.03	1.14
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	11.00%	11.00%
Interest		4.74	2.87	1.82	0.77	.0.13
Keturn on Equity	_					
Cross Notional Equity		139.20	139.20	139.20	139.20	139.20
Opening Equity		139.20	139.20	139.20	139.20	139.20
Average Equity		139.20	139.20	139.20	139.20	139.3
Rate of Return on Equity		23.83%	23,83%	23.83%	25.83%	23.83%
Return on Equity		33.17	33.17	33.17	33.17	33.13
Interest on Working Capital						
ATTION OF THE PARTY OF THE PART	15% of					
Maintenance Spares	OWN	4.41	4.56	4.23	4.89	-5.06
CMcM-1 represent	241000	2.45	2.54	2.63	2.72	2.8
Receivables		11.63	9.65	9.66	9.67	4.7
Total		18.49	16.79	17.01	17,27	17.0
Interest on Working Capital	13.50%	2.50	2.26	2.30	2.88	2.30
Annual Transmission Charges	-					
Depreciation	_	24.50	9.51	0.51	9.51	.9.5
Interest on Loan		4.74	2.87	1.82	0.77	0.1
Keturn on Liquity		33.17	33.17	33.17	33.17	33.3
Interest on Working Capital		2.50	2.26	2.50		2.3 33.7
OdeM Expenses		29.41	30.42	2,30 31,32	2.55 32.60	33.7
Total	0.0000000000000000000000000000000000000	94.31	79.23	76.31	78,39	78.9
Norms for OWAL per lary	220KV	22.51	23.30	24.12	24.96	25.6
Norms for O&M per km	5/6	0.252	0.260	0.270	0.279	0.284

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyol Souths, Hydoratisd - 500 pag.

Child Enginger/Commit's RAC TOTRANSCIO, Vidyor Southa Hyderobad - 500 082.

Assot-XIX : 220 KV Brahmnakotkur - Wanaparthy (f.1%)					(Rs. In	lakhs)
COD: Rationalised cost of 400ky line (Rs. lakh per cki km) Transmission Line length in cki km	29.10.2009 48.44 78.70	2010				
No. of bays Multiplication Factor Life in years	1 0.36 23					
Voltage kv	220					
Particulars	- 0/107	3019.30	2020-21	2021-22	2022-23	2023-24
Gross Block		1323.92	1373.97	1373.07	1323.02	1373.9
Addition during FY 2019-20 to FY 2023-24				***********		
due projected additional capitalisation		13.4.3	1000	1 (C 400)	0.40	200797
Gross Block Total		1373.97	1373.97	1373.97	1373.07	1323.90
Average Cross Block		1373.97	1373.97	1373.97	1373.97	1373.9
Depreciation				_		-918888
Rate of depreciation		0.28%	5.28%	5.28%	5.28%	5.28%
Depreciable value	90%	1236.97	1236.87	1236.57	1236.57	1236.33
Elapsed life as on 31 03 2019		9.00	10.00	11.00	12.00	13.00
Dalam's useful life of the asset		16.00	19.00	14.00	13.00	12.00
Remaining depreciable value		511.12	438.57	366.03	337.86	5050.65
Cumulative Depreciation		725.16	798.00	870.55	898.71	926.68
Depreciation		72.55	92.66	72.85	28.17	28.17
Interest on loan		-	THE RESERVE TO SERVE THE PERSON NAMED IN	100000000000000000000000000000000000000	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa	- Charles
Gross Normative Lisan		961.78	961.78	961.78	961.78	961.78
Cumulative repayment upto previous year		652.91	725.46	798 (6)	670.00	898.71
Net loan - opening		308.87	236.32	163.78	91.23	63.07
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.00
Repayment during the year		72.55	72.55	72.55	28.17	28.17
Net loan - closing		236.32	163.78	91.23	63.07	34.90
Average Loan		272.60	200.05	127.50	77.15	48.98
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	33.00%	11.00%
Interest		20.00	22.01	14.03	8.49	5.19
Return on Equity		175-150-0			1133000	
Gross Notional Equity		412.19	412.19	412.19	412.19	412.10
Opening Equity		412.19	412.10	412.19	412.19	412.10
Average Equity		412.19	412.19	412.10	412.19	412.19
Kate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
Heturn on Equity		98.21	98.21	98.21	98.21	98.21
Interestion Working Capital						555
	15% of					
Maintenance Spares	OWN	6.35	6.57	6.81	2.04	9.39
MeM Expenses		3.53	3.60	3.78	3.91	4.05
Receivables		30.65	29.83	29.04	22.98	22.81
Total		40.53	40.09	39.63	33.93	34.15
Interest on Working Capital	13,50%	5.47	56.43	5.39	4.58	4.61
Annual Transmission Charges						
Jeproxiation		72.55	22.66	93.00	28.17	24 (2)
interest on Loan		39.99	22.01	72.50	8.19	28.17
loturn on Equity		98.21	98.21	98.31	VN.21	98.21
nterest on Working Capital		5.47	5.41	5.35	4.58	4.01
McM Experimen		42.87	43.70	45.30	40.94	48.61
Fotal	1228 800 200	248.58	241.95	235.52	186.36	184.98
forms for O&M per bay	220KV	22.51	23.30	24.12	24.96	25.84
forms for O&M per km	5/C	0.252	0.260	0.270	0.270	0.289

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Firencial Officer TSTRANSCO, Vidyut Souths, Hydersbad - 500 082. Chief Engineer/Commit & RACI TSTRANSCO, Velyur Sourtha, Hyderobiad - 500 362.

Asset-XX:	Section 1				(Rs. In	lakha)
220kV Chillakallu-Narketpally - I(After-LHLO)		77.4.14.00	77		(100.000)	10/7/10/
COD: Rationalised cost of 400kv line (Rs. lakh per ckt km) Transmission Line length in ekt km No. of bays Multiplication Factor Life in years Voltage kv	20.03,1000 20.71 38.62 1 0.36 25 220	1000	newspact-c	Now, or old access		New (2004) 7/8
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Cross Block		287.94	287.94	287.94	287.94	287.94
Addition during Fy 2019-20 to FY 2023-24				-		-
due projected additional capitalisation		-	-		+ 11	-
Ciross Block Total		287.94	287.94	287.94	287.94	287.9
Average Cross Block		287.04	287.94	287.04	287.94	287.9
		THE PERSON NAMED IN	OR STREET, SQUARE, SQU	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	T STOROGOLD	and the least of
Depreciation						
Rate of depreciation	- 100	2.05%	2.05%	2.05%	2.05%	2.03%
Depreciable value	90%	259.14	259.14	259.14	259.14	259.1-
Flapsed life as on 31.03.2014	25/0/0	20.00	21.00	22.00	23.00	24.0
Balance useful life of the anot		5.00	4.00	3,00	2.00	1.00
Remaining depreciable value		28.01	22.11	16.20	10.30	4.40
Cumulative Depreciation		531.13	237.04	242.94	248.84	254.7
Depreciation		5.90	3.90	3,90	5,90	3.9
Interest on loan		100000	10000	00000	10000000	0/1//5
Gross Normative Loan		201.55	201.55	201.55	201.53	201.50
Cumulative repayment upto previous year		201.55	201.55	201.55	201.55	201.53
Net loan - opening		0.00	0.00	0.00	0.00	0.00
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.00
Repayment during the year		0.00	0.00	0.00	0.00	.0.00
Not leave - closing		0.00	0.00	0.00	0.00	0.00
Average Loan		0.00	0.00	0.00	0.00	0.00
Weighted average rate of interest on loan (%)		11.00%	11,00%	11.00%	11:00%	11.00%
Interest		0.00	0.00	0,00	0.00	0.00
Return on Equity		1000		10.00		
Gross Notional Equity		86.38	86.38	86.38	86.38	86.38
Opening Equity		86.38	86.38	50.35	80.38	86.38
Average Equity		86,38	86.38	56.38	86.38	86.38
Mate of Beturn on Equity		23,63%	23.83%	23.83%	23.83%	23.83%
Return on Equity		20.58	20.58	20.58	20.38	20.56
Interest on Working Capital		1100000000	11000000	- 11000000	THE RESERVE	- H-3660.00
initiation triaking capital	15% of	-	-			
Maintenance Spares	OWM	4.84	5.00	5.18	5.30	5.55
O&M Expenses	4,786,743	2.69	2.78	2.88	2.98	3.08
Meccivables		7.49	7.63	2.70	7.94	8.11
Total		15.02	15.41	15.85	10.28	16.74
Interest on Working Capital	33,50%	2.03	2.08	2.14	2.20	2.26
	1000000	-	6100	THE RESERVE	2.217	-2.70
Annual Transmission Charges						
Interest on Loan		5.00	5.90	5.90	5.90	5.90
Return on Equity		0.00	0.00	0.00	0.00	0.00
Interest on Working Capital		20.58	20.58	20.38	20.58	20.58
D6.54 Expenses		2.03	2.08	2.14	2.20	2.26
Total		32.24	33.34	34.55	35.73	37.00
Sorma for O&M per hay	XXXXXX	60.75	61.91	63.17	64.42	65.74
Soring for O&M per kin	220KV	22.51	23.30	24.12	24.96	25.84
STATES AND ADMINISTRATION ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AND ADMINISTRA	14/C	0.252	0.260	0.270	0.279	0.289

Financial Advisor and Citief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Souths. Hyderabad - 500 082.

Chief Engineer/Commit & PAC TSTRANSCO, Vidyut Souths, Hyderabed - 500 chg.

Attich and

Asset-XXI i					(Rs. In	fakhs)
220kV Chillakaliu-Narketpally - II(After-Eff:O) PUL	CHINTALA				10000000	W/28/8/14
COD: Rationalised cost of 400kv line (Rs. lakh per ckf km) Transmission Line length in ckf km No. of bays Multiplication Packer Life in years Voltage kv	29.03.1999 20.71 18.08 1 0.36 25 220	1000				VI 10024 1335
Particulars		2019-20	2020-21	2021-22	2022-23	2023.24
Cross Block		134.80	134.80	134,60	134.80	134.6
Addition during FY 2019-20 to FY 2023-24				100000000	-	-
due projected additional capitalisation		-	-	- 2		
Gross Block Total		134.80	134.80	134.80	134.80	134.8
Average Gross Block		134.80	134,90	134,90	134.90	134.8
		13430	2,742,000	DOM:	177170	111111
Dentectation						
Mate of depreciation	1000	2.05%	2.05% 121.32	2.09%	2.05%	2.05
Depreciable value	90%	121.32		121.32	121.32	121.3
Flagsed life as on 31.03.2019	e, 474,V,441	20.00	21.00	22.00	23.00	24.0
Balance useful life of the asset	1	5.00	4.00	3.00	2.00	1.0
Remaining depreciable value	-	14.95	12.10	9.43	0.06	3.9
Cumulative Depreciation	2	106.36	109.13	111.89	114.05	117.4
Depreciation		2.76	2.76	2.76	2.76	2.7
Interest on Ioan		A	-			
Gross Normative Loan		94.36	94.36	94.36	94.36	94.3
Consulative repayment upto previous year		91.36	91.36	94.36	94.36	94.3
Net loan - opening		0.00	0.00	0.00	0.00	0.0
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.0
Repayment during the year		0.00	0.00	0.00	0.00	0.0
Not loan - closing	_	0.00	0.00	0.00	0.00	0.0
Average Loan	_	0.00	0.00	0.00	0.00	0.0
Weighted average rate of interest on loan (%)		11.00%	11.00%	T1.00%	11.00%	11.00
Interest	_	0.00	0,00	0.00	0,00	0.0
THE PARTY OF THE P	100	2000	3000	10000	10000	11000
Return on Equity		7.00		200000	1000	1 (1)
Gross Notional Equity		40.44	40.44	40.44	40.44	40.4
Opening Equity		40.44	40.44	40.44	40.44	40.4
Average Equity		40.44	40.44	40.44	40.44	40.4
Rate of Return on Equity		23.83%	23,83%	23.83%	23.83%	57.67
Return on Equity		9.60	9.63	9,63	9.63	9.6
Interest on Working Capital	_			- The second		
AND THE RESERVE OF THE PROPERTY OF THE PROPERT	10% of	36131	25:05	3858	3857	1500
Maintenance Spares	O&M	4.06	4.20	4.35	4.50	4.6
O&M Expenses	- Call (1) - 70	2.26	2.33	2.42	2.50	2.5
Receivables		3.06	5.18	5.30	5.44	5.9
Total	10000	11,37	11.71	12.07	12.44	12.8
Interest on Working Capital	13.50%	1.54	1.58	1.63	1.68	1.7
Annual Transmission Charges	THE REAL PROPERTY.	THE REAL PROPERTY.	-	11900000	3000	V
Depreciation		2.76	2.70	2.76	2.76	2.7
Interest on Loan	_	0.00	0.00	0.00	0.00	0.0
Return on Equity	_	9.63	9,63	9.63	9.63	9.6
Interest on Working Capital	_	1.54	1.58	1.63	1.68	1.7
Olich Exponent	_	27.07	28.00	29.00	30.00	31.0
Tutal	-					
Charles and the second development in the second and the second an	930037	41.00	41.98	43.03	44.08	45.1
Norma for O&M per bay	230KV	22.81	23.30	24.12	24.96	25.8
Norma for O&M per km	5/C	0.252	0.260	0.270	0.279	0.28

Financial Advisur and Chief Controller of Accounts (Accounts) & Chief Fruncial Officer TSTRANSCO, Vidyut Southa, Hyderahad - 500 082.

Chief Engineer/Commi & RAC TSTRANSCO, Vidyut Goudhe. Hyderahad - 500 062.

132 KV Chillakallu - Ramapuram						2011/2017
COD	21.10.1982	1993				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	0 -					
Transmission Line length in ckt km	0.67					
No. of bays	1					
Multiplication Factor	0.43					
Life in years	25					
Voltage kv	132					
Particulars	177777	2019-20	2020-21	2021-22	9(199.93	2023 24
Gross Block		0.00	0.00	0.00	.0.00	0.00
Addition during FY 2019-20 to FY 2023-24						
due projected additional capitalisation		1,000		10,40,00	1,833	1.90%
Gross Block Total		0.00	0.00	0.00	0.00	0.00
Average Gross Block		0.00	0.00	0.00	0.00	0.00
- Consideration						
Depreciation	-					
Rate of depreciation	90%	0.00	0.00	0.00	0.00	0.00
Depreciable value	167.5	0.00	0.00	0.00	0.00	0.00
Elapsed life as on 31,03,2019 Balance useful life of the asset		0.00	0.00	0.00	0.00	0.00
Remaining depreciable value	_	0.00	0.00	0.00	0.00	0.00
Cumulative Depreciation	_	0.00	0.00	0.00	0.00	0.00
Depreciation	_	0.00	0.00	0.00	0.00	0.00
LINE CONTRACTOR CONTRA	-	THE RESERVE	200000	17770	10000	- CO.
Interest on loan		-		11/2/20		1000
Gross Normative Lean		0.00	0.00	0.00	0.00	0.00
Comulative repayment upto previous year		0.00	0.00	0.00	0.00	0.00
Net loan - opening		0.00	0.00	0.00	0.00	0.00
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.00
Repayment during the year		0.00	0.00	0.00	0.00	0.00
Net loan - cleaning		0.00	0.00	0.00	0.00	0.00
Average Laure	_	0.00	0.00	0.00	11.00%	11.00%
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%		
Interest		0.00	0.00	0.00	0.00	0.00
Return on Equity				3.000	77.00	7,100,0
Gross Notional Equity		0.00	0.00	0.00	0.00	0.00
Opening Equity		0.00	0.00	0.00	0.00	0.00
Average Equity		0.00	0.00	0.00	0.00	0.00
Rate of Return on Equity		23.83%	23.83%	23.83%	93.83%	23,83%
Return on Equity		0.00	0.00	0.00	0.00	0.00
Interest on Working Capital						
THE CONTROL OF THE PARTY OF THE	15% of					
Maintenance Spares	CM-N1	2.79	2.80	2.00	3.09	3,20
O&M Experimen	353503	1.55	1.60	1.66	1.72	1.78
Receivables	_	2.41	2.40	2.58	2.67	2.76
Futal		6.74	0.98	7.23	7.48	7.74
Interest on Working Capital	13.50%	0.91	0.94	0.98	1.01	1.05
THE RESERVE THE PROPERTY OF THE PARTY OF THE	-		-	THE RESERVE OF THE PERSON NAMED IN		-
Annual Transmission Charges		77.00	2700			
Depreciation Interest on Laun		0.00	0.00	0.00	0.00	0.00
Return on Equity		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	1.00	1.05
Interest on Working Capital O&M Expenses	_	18.59	19.25	19.02	20.62	21.33
Total		19.51	20.19	20.90	21.63	22,39
Norms for Od M per bay	132KV	16.08	10.64	17.23	17.83	18.46
						0.433
Norms for OftM per km	13/0	0.377	0.391	0.404	0.419	0.4

Financial Advisor and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderatad - 500 082. 66

Chief Engineer/Current & PAC T9THANSCO, Vidyot Soudha Hydursbild - 500 082.

4- Winhound

(Ba. In lakhs)

CALCULATION OF ANNUAL TRANSMISSION CHRACES Asset-XXIII & XXIV :

Asset-XXIII & XXIV					(100)	in trail
132 KV Kamavarapu Kota - Aswaraopet - 1 & II	100000000000000000000000000000000000000	100000				10000
CODE Battonalised cost of 400kv line (Rs. lakh per det km) Eransmission Line length in ekt km No. of bays	09.06.1982 0 9.90 2	1983				
Multiplication Eactor	0.43					
Life in years	25					
Voltage ky	132					5053.53
Particulars	1000	2019-20	2020-21	2021-22	2022-23	
Cirosa Block		0.00	0.00	0.00	0.00	0.00
Addition during FY 2019-20 to 1-Y 3023-24						
due projected additional capitalisation			- 4		-	-
Ciross Block Total		0.00	0.00	0.00	0.00	0.00
Average Gross Block		0.00	0.00	0.00	0.00	0.00
Depresiation	-					
Mate of depreciation	_					
Depreciable value	90%	0.00	0.00	0.00	0.00	0.00
Elapsed life as on 31.03.2019		0.00	0.00	0.00	0.00	0.00
Balance useful life of the sines		0.00	0.00	0.00	0.00	0.00
Remaining depreciable value		0.00	0.00	0.00	0.00	0.00
Cumulative Depreciation		0.00	0.00	0.00	0.00	0.00
Depreciation		0.00	0.00	0.00	0.00	0.00
100 000 000 000 000 000 000 000 000 000			THE CONTRACTOR	400	- NAMES OF	
Interest on loan	_	0.00	0.00	0.00	0.00	0.00
Gross Normative Loan	_	0.00	0.00	0.00	0.00	0.00
Cumulative repayment upto previous year	_	0.00	0.00	0.00	0.00	0.00
Net loan - opening Addition due to additional capitalisation	_	0.00	0.00	0.00	0.00	0.00
Administration and to additional explanation	_	0.00	0.00	0.00	0.00	0.00
Repayment during the year Not loan - closing	_	0.00	0.00	0.00	0.00	0.00
	_	0.00	0.00	0.00	0.00	0.00
Average Loan Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	11.00%	11.00%
Interest		0.00	0.00	0.00	0.00	0.00
	_	THE RESERVE OF THE PERSON NAMED IN				
Return on Equity			77.00	0.00	0.00	0.00
Gross Notional Equity		0.00	0.00	0.00	0.00	0.00
Opening Equity		0.00	0.00	0.00	0.00	0.00
Average Equity	_	23.83%	0.00	23.83%	23.83%	23.83%
Rate of Return on Equity	_	0.00	0.00	0.00	0.00	0.00
Return on Equity	_	0.00	- MAKE	0.00	0,00	11,111
Interest on Working Capital	100000000000000000000000000000000000000			/		
A STATE OF THE PROPERTY OF THE	1.0% (0)				W.V.	
Maintenance Spares	CM/M	5.14	0.31	0.90	5.69	5.90
CWeM Expenses		2.85	2.05	3.06	3.16	3.36
Receivables		4.43	4.58	4.75	4.91	11.135
Intal		12.42	12.85	13.50	13.77	14.25
Interest on Working Capital	13.50%	1.68	1.73	1.80	1.66	1.97
Annual Transmission Charges	_					
Depreciation		0.00	0.00	0.00	0.00	0.00
Interest on Loan		0.00	0.00	0.00	0.00	0.00
Return on Equity		0.00	0.00	0.00	0.00	0.00
Interest on Working Capital		1.68	1.75	1.80	1.86	1.92
CAM Expenses		34.23	35.43	36.68	37.96	19.30
Total	- X7792070	35.91	37.17	36.48	39.82	41.2
Norms for O&M per hay	132KV	16.08	16.04	17.23	17.83	18.46
Norms for O&M per km	13/4	0.377	0.391	0.404	0.419	0.43

Centrollar of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Souths, Hydersbad - 600 042,

CALCULATION OF ANNUAL TRANSMISSION Asset XXV:	CHRAGES				(Rs. In)	alchei
132 KV Nagarjunasagar - RCPH	1 1				1000.000	and the same of th
COD:	29.02.1983	1990				
flationalised cost of 400ky line (Rs. lakh per ekt km)	H-	1.000				
Transmission Line length in ckt km	7.70					
No. of bays	1000					
Multiplication Factor	0.31					
Life in years	25					
Voltage kv	132					
Particulars	100	2019-20	2020-21	2021-22	5099.93	9093.94
Gross Block		0.00	0.00	0.00	0.00	0.00
Addition during FY 2019-20 to FY 2023-24		0.00	0.00	0.586	100.00	17.5.7
due projected additional capitalisation						
Cross Block Total		0.00	0.00	0.00	0.00	0.00
Average Gross Block	_	0.00	0.00	0.00	0.00	0.00
CONTROL CONTRO	_					
Depreciation						
Rate of depreciation	4000	0.00	0.00	0.00	45,701	775.76
Depreciable value	90%	0.00	0.00	0.00	0.00	0.00
Elapsed life as on 31 03 2019	-	0.00	0.00	0.00	0.00	
Dalance useful life of the asset	_	0.00	0.00	0.00	0.00	0.00
Remaining depreciable value	_				The state of the s	
Cumulative Depressation	-	0.00	0.00	0.00	0.00	0.00
Depreciation		0.00	0.00	0.00	0.00	0.00
Interest on Joan			7.4.1			
Cross Normative Laure		0.00	0.00	0.00	0.00	0.00
Cumulative repayment upto previous year		0.00	0.00	0.00	0.00	0.00
Not loan - opening		0.00	0.00	(110)	0.00	THIN
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.00
Repayment during the year		0.00	0.00	0.00	0.00	0.00
Net lean erlening		0.00	0.00	0.00	0.00	0.00
Average Loan		0.00	0.00	0.00	0.00	0.00
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	11.00%	11.00%
Interest		0.00	0.00	0.00	0.00	0.00
Return on Equity	-					
Gross Notional Equity		0.00	0.00	0.00	0.00	0.00
Opening Equity	_	0.00	(1.08)	0.00	0.00	0.00
Average Equity	_	0.00	0.00	0.00	0.00	0.00
Rate of Return on Equity		23.83%	23.63%	23.63%	23.63%	23.83%
Return on Equity		0.00	0.00	0.00	0.00	0.00
Interest on Working Capital						
more control and capital	15% of					
Maintenance Spares	OWN	2.70	2.80	2.90	3.00	3.10
O&M Expenses	1000000	1.50	1.55	101	1.66	1.72
Kausahles		2.33	2.41	2.50	2.68	270
Total		6.54	6.78	7.00	7.25	7.50
Interest on Working Capital	13.50%	0.88	0.91	0.95	13.99	1.01
Amount Transmitted on Physics	The state of the last of the l	771.07	the same of the same of	THE PERSON NAMED IN	THE RESERVE TO SHARE	THE OWNER OF TAXABLE PARTY.
Annual Transmission Charges Deprectation		0.00	8.70	20.00	70.300	1
Interest on Loan		0.00	0.00	0.00	0.00	0.00
Return on Equity	1	0.00	0.00	0.00	0.00	0.00
Interest on Working Capital		0.00	77.771.		0.00	0.00
OdeM Experience	_	18.02	0.91	0.95	0.98	1.01
Total		18.02	19.64	19.31	19.98	20.69
Norma for OMM per buy	10000	2000	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	20.25	20.9n	21.70
Norms for CMMI per loss	132KV 5/C	0.252	0.260	0.270	12.83	18.46
AND THE STREET PATEUR	27.5	11.232	0.200	0.270	6.379	0.289

Financial Advisor and Chief Controller of Accounts (Adecunts) & Chief Financial Officer TSTRANSCO, Vidyul Soucha, Hyderahad - 800 Os2,

Chief Englisser-Commit & PAO 1811 UNISCO, Vioyal Boudha. Hyderatud - 500 082.

CALCULATION OF ANNUAL TRANSMISSION Asset-XXVI:	CHARGES				(Rs. In I	akhs)
132 KV Chillakallu - Kusumanchi					2000	71.000
COD	24.12.1985	1986				
Rationalised cost of 400kv line (Ns. lakh per ckf km)	0					
Transmission Line length in ckt km	47.00					
No. of bays	1					
Multiplication Factor	0.45					
Life in years	254					
Yoliage ky	132					
Particulary	100	3019.30	3030-31	2021-22	2022-23	2023-24
Gross Block	_	0.00	0.00	0.00	0.00	0.00
Addition during FY 2019-20 to FY 2023-24	_	0.00	0.00	0.00	0.00	0.04
Abor projected additional capitalisation			- 2			
		0.00	0.00	0.00	0.00	0.00
Circus Block Fotal	-	1,710,000,00	100000	100000000000000000000000000000000000000	57,000	
Average Gross Block	_	0.00	0.00	(3,00)	0.00	0.00
Depreciation						
Rate of depreciation						
Depreciable value	90%	0.00	0.00	0.00	0.00	0.00
Elapsed life as on 31.03.2019	80000	0.00	0.00	0.00	0.00	0.00
Balance useful life of the asset		0.00	0.00	0.00	0.00	0.00
Rematrung depreciable value		0.00	0.00	0.00	0.00	0.00
Cumulative Depreciation		0.00	0.00	0.00	0.00	0.0
Depreciation		0.00	0.00	0.00	0.00	0.00
Interest on loan			2907			- 100
Gross Normative Loan		0.00	0.00	0.00	0.00	0.0
Cumulative repayment upto previous year		0.00	0.00	0.00	0.00	0.00
Net loan : opening		0.00	0.00	0.00	0.00	0.00
Addition due to additional capitalisation	V	0.00	0.00	0.00	0.00	0.00
Repayment during the year		0.00	0.00	0.00	0.00	0.0
Net loan - closing		0.00	0.00	0.00	0.00	0.00
Average Loan		0.00	0.00	0.00	0.00	0.00
Weighted average rate of interest on loan (%)		11.00%	11,00%	11.00%	11.00%	11.00%
Interest		0.00	0.00	0.00	0.00	0.00
Return on Equity						7
Circus Notional Equity		0.00	0.00	0.00	0.00	0.00
Opening Equity		0.00	0.00	0.00	0.00	0.00
Average Equity		0.00	0.00	0.00	0.00	0.00
Rate of Return on Equity		23.85%	23.83%	23.83%	23.83%	23.835
Return on Equity		0.00	(3.00)	0.00	0.00	0.00
Interest on Working Capital			-			
	15% of					
Maintenance Spares	OWN	5.07	5.23	5.43	5.63	5.83
OleM Expenses		2.82	3.93	3.02	3.13	3.2
Receivables		4.32	4.53	4.69	4.85	5.00
Total		12.26	12.70	13.14	13.61	14.08
Interest on Working Capital	13.50%	1.65	1.71	1.77	1.84	1.90
Annual Transmission Charges						
Deprociation		0.00	0.00	0.00	0.00	Dix
Interest on Loan		0.00	0.00	0.00	0.00	0.00
Beturn on Equity		0.00	0.00	0.00	0.00	0.00
Interest on Working Capital		1.65	1.71	1.77	1.84	1.00
CMeM Expresses		33.60	39.02	36.22	37.52	(58.8)
lutal		35.45	36,73	37,99	39.36	40.71
Norma for OfeM per bay	152KV	10.08	16.64	17.23	17.83	18.4

Financial Advisor and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Voyul Soudha, Hyderabad - 500 082

Chief Engineer/Commi & RAC TSTRANSCO, Vidyut Boudha, Hyderabad - 500 082,

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CALCULATION OF ANNUAL TRANSMISSION CHRAGES

Asset-XXVII & XXVIII:		(Re. In lakhs)						
132 KV Chillakallu - Bonakallu - I ← II								
CODE Rationalised cost of 400kv line (Rs. labb per ckt km)	20.01.1987	1967						
Transmission Line length in ckt km	2.60							
No. of bays	9.							
Multiplication Factor	0.43							
Lafe in years	25							
Voltage kv	132							
Particulars	100	2019 20 T	2020-21	2021-22	2032-23	2023-24		
Grass Black		0.00	0.00	0.00	0.00	0.00		
Addition during FY 2019-20 to FY 2023-24	_	10,000	10,107	0.00	0.00	0.00		
due projected additional capitalisation					- 1			
	_	70000	0.00	0.00		0.00		
Cirons Block Total		0.00	1110000		0.00	0.00		
Average Gross Block		0.00	0.00	0.00	0.00	0.00		
Depreciation								
Rate of depressation								
Depreciable value	90%	: 0.00	0.00	0.00	0.00	0.00		
Elapsed life as on 31.03.2019	100000	0.00	0.00	0.00	0.00	0.00		
Balance useful life of the asset		0.00	0.00	0.00	0.00	0.00		
Remaining depreciable value		0.00	0.00	0.00	0.00	0.00		
Cumulative Depreciation		43.00	0.00	0.00	0.00	0.00		
Depreciation		0.00	0.00	0.00	0.00	0.00		
Interest on Inan								
Cross Normative Lean		0.00	0.00	0.00	0.00	0.00		
Cumulative repayment upto previous year		0.00	(7.00)	0.00	0.00	0.00		
Net loan - opening		0.00	0.00	0.00	0.00	0.00		
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.00		
Repayment during the year		0.00	0.00	0.00	0.00	0.00		
Net form - closing		0.00	0.00	0.00	0.00	0.00		
Average Loan		0.00	0.00	0.00	0.00	0.00		
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	11.00%	11.00%		
Interest		0.00	0.00	0.00	0.00	0.00		
Keturn on Equity								
Gross Notional Equity		0.00	0.00	0.00	0.00	0.00		
Opening Equity	_	0.00	0.00	0.00	0.00	0.00		
Average Equity	_	0.00	0.00	0.00	0.00	0.00		
Rate of Return on Equity	_	23,63%	23.63%	23.83%	23.83%	23.83%		
Return on Equity	_	0.00	0.00	0.00	0.00	25,85%		
TECHNOLOGY PROGRAMMENT AND THE PROGRAMMENT AND		0.00	0.00	17,130	0.007	17.08		
Interest on Working Capital	15% of							
Maintenance Science	OWM	4.98	W-937	0.00	0.00	97.000		
Maintenance Spanes	UNENT	2.99	5.16	5.34	5.52	3.72		
OffeM Experiment			2.86	2.97				
	_	4.50	4.49	4.60	4.26	4.93		
Lotal		12.05	12.47	12.91	13.36	13.83		
Interest on Working Capital	13,50%	1.63	1.68	1.74	1.80	1.87		
Annual Transmission Charges								
Depreciation		0.00	0.00	0.00	0.00	0.00		
Interest on Loan		0.00	0.00	0.00	0.00	0.00		
Return on Equity		0.00	0.00	0.00	0.00	0.00		
Interest on Working Capital		1.63	1.68	1.74	1.80	1.87		
MeM Expresses		33.22	34.37	35.59	30.83	38.13		
Total	10/200000	34.04	36.06	37,33	38.64	40.00		
Norms for O&M per bay	132KV	16.08	16.64	12.23	17.83	18.46		
Norms for O&M per kin	D/C	0.377	0.391	0.404	0.419	0.433		

Financial Advisor and Chief Controller of Accounts (Accounts) & Chief Financial Officer TETTANSCO, Vidyut Soudha, Hyderabad - 500 opp.

Chief Engineer/Commi & MAC TOTRANSCO, Vidyut Soudha, Hydorabad - 500 082,

CALCULATION OF ANNUAL TRANSMISSION CHRAGES

Asset-NXIX(A): 132 KV A.P.Carbides - Alampur - I(Original Line)					(Ha. In	lakha)
COD:	The same of the same of					
Rationalised cost of 400ky line (Rs. lakh per cht km)	20.01.1987	1987				
Touremission Line length in ckt km	0					
No. of bays	4.66					
Multiplication Factor	1					
Life in years	0.33					
Voltage ky	1,777,					
Particulars	132					
Gross Black		2019-20	2020-21	2021-22	2022-23	2023-24
Addition during FY 2019-20 to FY 2023-24		0.00	0.00	0.00	0.00	0.6
due projected additional capitalisation		2000	1000	200	-	
Gross Block Total		-		-		
Average Grow Block		0.00	0.00	0.00	0.00	0.0
Sycringe Circles Hittes		0.00	0.00	0.00	0.00	0.0
Depreciation		11000	2007/4		The second second	-
Rate of depreciation						
Depres table value	90%	0.00	0.00			
Elepsed life as on 31 03 2019	30%	0.00	0.00	0.00	0.00	0.0
Hotonce useful life of the asset		0.00	0.00	0.00	0.00	0.0
Remaining depreciable value		0.00	0.00	0.00	0.00	0.0
Comulative Deprociation	_	0.00	1,411,411	0.00	0.00	0.0
Depreciation		0.00	0.00	0.00	0.00	0.0
177 POR 177 PO		17.00	0.00	0.00	0.00	0.0
Interest on lean						_
Gross Normative Lunn		0.00	0.00	0.00	0.00	0.00
Cumulative repayment upto previous year		0.00	0.00	0.00	0.00	0.00
Net lean - opening		0.00	0.00	0.00	0.00	0.0
Addition the to additional capitalisation		0.00	0.00	0.00	0.00	0.00
Repayment during the year		0.00	0.00	0.00	0.00	0.00
Net hom - closing		0.00	0.00	0.00	0.00	0.00
Average Loan		0.00	0.00	0.00	0.00	0.00
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	11.00%	11.00%
Interest		0.00	0.00	0.00	0.00	0.00
Return on Equity	-		-	10000	1000	0.00
irons Notional Equity		0.00				
Pening Equity		0.00	0.00	0.00	0.00	0.00
Average Equity		0.00	0.00	0.00	0.00	0.00
Sate of Heruro on Equity		0.00	0.00	0.00	0.00	0.00
Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
TO THE RESIDENCE OF THE PARTY O	-	0.00	0.00	0.00	0.00	0.00
aterest on Working Capital	1000	-	- Anna Carlo	THE REAL PROPERTY.	Total Control of the	1
	13% of					
daintenance Spares	OWM	2.59	2.68	2.77	2.87	70.00
McM Experises		1.44	1.49	2.77	1.59	2.97
gosivatiles		2.23	2.31	2.10	2.47	1.65
Total		0.26	6.47	6.71	0.94	2.86
Interest on Working Capital	13.50%	0.64	0.87	0.91	0.91	7.10
nnual Transmissiun Charges	ASSESSMENT OF THE PARTY OF THE	WEST CO.	100000	0.01	0.91	0.97
preciation Charges			2000	==27/95		-
benest on Loan		0.00	0.00	0.00	0.00	0.00
eturn on Equity		0.00	0.00	0.00	0.00	0.00
sterest on Working Capital		0.00	0.00	0.00	0.00	0.00
&M Expenses		0.84	0.87	0.91	0.94	0.97
Fotal	-	17.25	17.85	18.49	19.13	19.81
orms for O&M per bay		18,10	18.73	19.39	20.07	20.76
orms for O&M per km	132KV	16.08	10.64	17.23	17.83	18.46
THE PARTY NAME OF PARTY AND PARTY OF PARTY AND PARTY OF PARTY.	9/2	0.252	0.260	0.270	0.970	0.289

Controller of Accounts (Accounts) a Chief Financial Officer TSTRANSCO, Vidyut Souths, Hyderahad - 500 082

Chief Engineer/Commi & PAC TSTRANSCO, Vidyut Soudha, Hyderabad - 800 082.

CALCULATION OF ANNUAL TRANSMISSION CHRAGES ASSEL-XXXXII):

Asset-XXIX(B):					(Hs. In	akhu)
132 KV A.P.Carbides - Alampur - I(LILO)					10.000	177.000
COD: Rationalised cost of 400kv line (Rs. lakh per ckt km) Transmission Line length in ckt km No. of bays Multipth often lactur Life in years Voltage kv	17.05.2004 27.2 1.20 1 0.31 25 132	2005				
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block	_	10.12	10.12	10.12	10.12	10.13
Addition during FY 2019-20 to FY 2023-24	_	100.100	40.40	10.10	10.77	10.1
due projected additional capitalisation		0.00				
Gross Block Total		10.12	10.12	10.12	10.17	10.1
Average Gross Block		10,12	10.12	10.12	10.12	10.13
THE PROPERTY OF THE PROPERTY O	_					
Depreciation			-			
Rate of depreciation		2.05%	2.05%	2.05%	2.05%	2.05%
Depreciable value	90%	9.11	9.11	9.11	9.11	9.1
Ltapsed life as on 31.03.2019	1000000	14.00	15.00	16.00	12.00	18.00
Balance useful life of the asset	-	11.00	10.00	9.00	9.00	7.00
Remaining depreciable value		2.07	1.87	1.66	1.45	1.2
Cumulative Depressation		7.03	7.24 0.21	7.45	7.66 0.21	7.60
Depreciation	_	0.21	0.21	0.51	0.21	0.2
Introot an loan		3337	2007	0.00	10000	(2000)
Gross Normative Loan		7.08	7.08	7.08	7.08	7.00
Completive repayment upto previous year		6.63	7.03	7.08	7.08	2.0
Net loan - opening		0.26	0.05	0.00	0.00	0.00
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.00
Repayment during the year		0.21	0.09	0.00	0.00	0.00
Net loan - closing		0.05	0.00	0.00	0.00	0.00
Average Lean		0.15	0.02	0.00	0.00	0.00
Weighted average rate of interest on loan (%)	-	11.00%	11.00%	11.00%	11.00%	11.00%
Interest		0.02	0.00	0.00	0.00	0.00
Return on Equity						
Gross Notional Equity		3.04	5.04	3.04	1.04	3.0
Opening Equity		3.04	3.04	3.04	3.64	3.0
Average Equity		3.04	3.04	3.04	3.04	3.0
Kate of Return on Equity		23.83%	23.83%	21.83%	24.83%	21,835
Return on Equity		0.72	0.72	0.72	0.72	0.25
Interest on Working Capital						
THE STATE OF THE S	15% of				-	
Maintenance Spares	CMM	2.46	2.54	2.63	2.72	2.82
OMM Expenses	100000000000000000000000000000000000000	2.46	1.41	1.40	2.72	1.97
Recevables		2.24	2.31	2.70	2.47	3.6
Tutal		6.06	6.27	6.48	6.70	6.94
Interest on Working Capital	13.50%	0.82	11.755	11.88	0.91	0.94
	CONTRACTOR OF THE PARTY OF THE	- STEELSTONE ST	-	THE R. P. LEWIS CO., LANSING	-	
Annual Transmission Charges Depreciation	-	0.21	0.21	0.57	0.21	0.2
Interest on Loan		0.02	0.00	0.21	0.00	0.00
Roturn on Equity		1777	0.72	0.72	0.72	0.7
Interest on Working Capital		0.83	0.85	0.88	0.91	0.94
O&M Expenses	1	16.38	16.95	17.55	18.16	18.81
Total		18.15	18.73	19.36	20.00	20.67
Norms for O&M per bay	13560	10.05	10.04	17.23	17.83	16.16
Norms for O&M per km	9/C	0.252	0.260	0.270	0.379	0.389
The state of the s	7.7	1718068	111111111	471907.47		47.55

Controller of Accounts (Accounts) & Chief Emphasia Officer TSTRANSCO, Vidyut Saudhu, Hydersbad - 500 088.

Attenhand. Chief Englises/Cummi & FV C TSTRANSCO, Vidyut Soucha, Hydersbad - 500 062,

CALCULATION OF ANNUAL TRANSMISSION CHRACES

Asser-NNX:					(Rs. In labbs)		
132 KV Chillakallu - Madhira						100000	
COD: Rationalised cost of 100kv line (Rs. laklt per ckt km) Transmission Line length in ckt km No. of bays Multiplication Factor 1,the in yours Voltage kv	27.10.2001 44.28 7.00 1 0.51 25	2002					
Particulars	1,14	2019-20	2020-21	2021-22	2022-23	2023-24	
Cross Block	_	96.09	96.09	96.00	96.09	96.0	
Addition during PY 2019-20 to PY 2023-24 due projected additional capitalisation		311,072	71,410	300.03	70007	10000	
Gross Block Total		96.09	96.09	96.09	96.09	96.0	
Average Ciross Block	_	96,09	96.09	96,09	96.09	96.0	
COLUMN TO SAFE		10.07	94009		30.03	70.0	
Depreciation					-		
Bate of depreciation		2.05%	2.05%	2.00%	2.05%	2.05%	
Depreciable value	90%	36.48	86.48	86.48	86.48	86.40	
Elapsed life as on 31.03.2019	V V/ V ==	17.00	18.00	19.00	20.00	21.00	
Balance useful life of the asset		8.00	7.00	6.00	5.00 7.87	- 14.19	
Remaining depreciable value		13.78	11.61	0.84		5.00	
Connidative Depreciation		99.90	74.67	76.64	78.61	80.59	
Depreciation		1.97	1.97	1.67	1.07	1.00	
Interest on loan			775387				
Cross Normative Lasn		67.26	67.26	67.26	67.26	67.39	
Cumulative repayment upto previous year		67.26	67.26	67.26	62.26	67.34	
Net loan - opening		0.00	0.00	0.00	0.00	0.00	
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.00	
Repayment during the year		0.00	0.00	0.00	0.00	0.00	
Not have chearing		0.00	0.00	0.00	0.00	0.00	
Average Loan		0.00	0.00	0.00	0.00	0.00	
Weighted average rate of interest on loan (%)		31.00%	11.00%	11.00%	11.00%	11.005	
Interest		0.00	0.00	0.00	0.00	0.00	
Return on Equity	_						
Gross Netional Equity	_	28.83	28.63	28.83	58.83	26.63	
Opening Equity		28.83	28.83	28.83	28.83	28.83	
Average Equity		28.83	28.83	28.83	28.83	28.8	
Rate of Return on Equity		23.83%	21.83%	2181%	21815	21.81%	
Return on Equity		6.87	6.87	6.87	6.87	6.87	
CONTRACTION DESCRIPTION OF STREET							
Interest on Working Capital	15% of						
M. A. Albandaria Companya	CMAN	7.00	0.700	2.42	0.00	2.00	
Maintenance Spares O&M Expenses	CASEAL	2,68	2.77	2.87	2.97	3.07	
Receivables	_	3.42	3.50	3.56	3.67	3.76	
Tutal		7.58	7,80	9.04	8.28	8.54	
Interest on Working Capital	13,50%	1.03	1.05	1.09	1.12	1.11	
interest on working capital	\$1427917711	1.00	4.00	1.09	1.12	4.15	
Annual Transmission Charges							
Depres tation		1.97	1.97	1.92	1.97	1.97	
Interest on Loan		0.00	0.00	0.00	0.00	0.00	
Return on Equity		0.87	6.87	6.87	0.87	0.87	
Interest on Working Capital		1.02	1.06	1.09	1.15	1.15	
O&M Expenses		17.84	18.46	19.12	19.78	20.48	
Intal	10000000	27.71	28.35	29.04	29.74	30,47	
Norms for OlcM per bay	152KV	16.08	10.04	17.23	17.83	18.40	
Norms for O&M per km	8/C	0.252	0.760	0.270	0.579	0.284	

Findholal Advisor and Chief Controller of Accounts (Accounts) & Chief Findholal Officer TSTRANSCO, Volyut Shudhe, Hyderatiski - 500 063

Chief Engineer/Commi & RAC TSTRANSCO, Vidyet Boudha, Hydershad - 500 082.

CALCULATION OF ANNUAL TRANSMISSION CHRACIES

CALCULATION OF ANNUAL TRANSMISSION Asset-XXXI:	CHRAGIN				(No. In	ab back
132 KV Chillakallu - Khammam	1 1				(iiii. iii	in the same
COD:	02.12.2001	2002			100000000000000000000000000000000000000	
Rationalised cost of 400kv line (Rs. lakh per ckt km)	44.28	2002				
Transmission Line length in ckt kin	36.00					
No. of bays	1					
Multiplication Factor	0.43					
Life in years	25					
Voltage kv	132	520000000000000000000000000000000000000	- 20000000	وحديد تنتنت		
Particulars	0.1000	2019-20	2020-21	2021-22	2022-23	2023-24
Cirum Hlock		666.43	666.43	666.41	666.41	000.4
Addition during FY 2019-20 to FY 2023-24						
due projected additional capitalisation		7.0	20.500			
Gress Block Total		666.41	666:41	000.41	000.43	nno.41
Average Gross Block		nnn.43	.000.43	000.41	666.41	666.47
Depreciation						
Rate of depreciation		2.05%	2.05%	2.05%	2.05%	2.05%
Depresable value	90%	1999.77	199.72	599.77	399.77	599.75
Hapsed life as on 31.03.2019	907.0	17.00	18.00	19.00	20.00	21.00
Balance useful life of the asset		8.00	7.00	6.00	5.00	4.00
Remaining depreciable value	_	95.5e	81.90	68.24	54.58	40.93
Cumulative Depressation	_	504.21	517.87	531,53	040.19	0.58.8
Deproviation	_	13.00	13.66	13.66	13.66	13.00
CONTRACTOR OF THE PROPERTY OF		1000000	170,000	THE PERSON NAMED IN	- WHEN	777000
Interest on Joan		1000	110000			
Gross Normative Loan		400.49	400.49	400.49	466.49	400.45
Cumulative repayment upto provious year		466.49	466.49	400.49	466.49	400.45
Net lean apening		0.00	0.00	0.00	0.00	0.00
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.00
Repayment during the year		0.00	0.00	0.(8)	-0.00	0.00
Net loan - closing		0.00	0.00	0.00	0.00	0.00
Average Loan		0.00	0.00	0.00	0.00	0.00
Weighted average rate of interest on four (%)	_	11.00%	11.00%	11.00%	11.00%	11.00%
Interest	-	0.00	0.00	0.00	0.00	0.00
Return on Equity		11 10 10 10 10 10 10 10 10 10 10 10 10 1	1000000		12,500,000	and the same
Gross Notional Equity		100.02	199.93	100.03	100.03	100.03
Opening Equity		199.93	199.97	199.92	199.92	199.92
Average Equity		199.92	199.92	100.02	199.92	199.03
Kate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		47.63	47.63	47.63	47.63	47.63
Interest on Working Capital						
	19% of					
Maintenance Spares	O6M	4.39	4.55	4.71	4.67	3600
O&M Expension	10100000	2.44	4,55 2,53	2.01	2.71	2.80
Receivables		11.47	11.61	11.74	11.89	12.04
Lotal		18.30	18.69	19.06	19.47	19,66
Interest on Working Capital	13.80%	2.47	2.52	2.52	2.63	2.68
Annual Transmission Charges	111111111111111111111111111111111111111	- The same of the	-	- Inches		
Depreciation		13.66	13.00	13.00	33.00	13.66
Interest on Lasan		0.00	0.00	0.00	0.00	0.00
Keturn on Equity		47.63	47.63	47.63	47.63	47.63
Interest on Working Capital		2.47	2.52	2.57	2.63	2.68
Oh M Expenses		29,28	30.33	31.32	32.50	33.62
Total		93.04	94.14	95.24	96.42	97.59
Norms for O&M per bay	132KV	16.08	10.04	17.23	17.63	18.46
Norms for O&M per kin	D/C	0.377	0.391	0.404	0.419	137.900

Finalcial Adviser and Chief Controller of Accounts (Accounts) a Chief Financial Officer TBTRANSCO, Vidyut Bouche, Hyderabad - 500 Dkg.

Chief Engineer/Commi & RAC TSTRANDOD, Vidyut Soudhe, Myllurabod - 500 089

CALCULATION OF ANNUAL TRANSMISSION CHRACIES

CALCULATION OF ANNUAL TRANSMISSION Asset-XXXII	CHRACIS				(Ha. In I	akhai
132 KV Chillakallu - Sitapuram	1 1				110001111	
COD	06.04.2004	2005				
Rationalised cost of 400kv line (Ra. lakh per cki km)	27.2	2000				
	2.50					
Transmission Line length in ckt lon						
No. of boys						
Multiplication Factor	0.43					
Life in years	23					
Voltage kv	132	-	10000000	-		MINE A
Particulars	11,547	2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		29.24	20.24	29.24	29.24	29.34
Addition during FY 2019-20 to FY 2023-24						
due projected additional capitalisation		4.7	2,000	0.8000	3,955	1,817
Cirona Block Total		29.24	29.24	29.24	29.24	29.20
Average Ciross Block		29.24	29.24	29.24	29.24	29.24
TOWN DEPOSITS	_					-
Depreciation		-				190000
Rate of depreciation		2.05%	2.05%	2.03%	2.03%	2.05%
Depreciable value	90%	26.32	20.32	26.32	26.32	26.37
Elapsed life as on \$1.05.2019	11111111111	14.00	15.00	16.00	17.00	18.0
Balance useful life of the asset		11.00	10.00	9.00	8.00	7.0
Remaining deprectable value		5.00	0.30	4.79	4.19	3.51
Consulative Depresiation		20.32	20.92	21.52	22.12	22.73
Depreciation		0.60	0.60	0.60	0.60	0.60
Interest on Joan		-				-
Gross Normative Luan		20.47	20.47	20.47	20.47	20.47
Camulative repayment upto previous year		19.93	20.32	201.47	20.17	20.47
Not lean - opening		0.74	0.14	0.00	0.00	0.00
Addition due to additional capitalisation	_	0.00	0.00	0.00	0.00	0.00
Repayment during the year		0.60	0.14	0.00	0.00	0.00
Net loan - chroing		0.14	0.00	0.00	0.00	0.00
Average Loan		0.44	0.07	0.00	0.00	O.O.
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	11.00%	11.00%
Interest		0.05	0.01	0.00	0.00	0.00
RESTRUCTION OF THE PARTY OF THE	-		-			
Return on Equity	-	-	4 100	-		
Circus Notional Equity		8.77	8.77	8.77	8.77	8.77
Opening Equity		8.77	8.77 6.77	8.22	8.77	8.27
Average Equity	_	6.77		6.77	6.77	R.77
Rate of Return on Equity	-	23,83%	23.83%	27.67%	23.83%	23.63%
Return on Equity		2.09	2.09	2.09	2.09	2.4%
Interest on Working Capital	10000000					
G00.1 (1.07-2.7 (1.08) (1.08) (1.08) (1.08)	15% of					
Maintenance Spares	O&M	2.55	2.64	2.74	2.83	2.93
CMcM Expenses	-	1.42	1.47	1.52	1.57	1.63
Receivables		2.55	2.62	2.70	2.78	2.87
Total		6.52	6.73	6.95	7.18	7.43
Interest on Working Capital	13.50%	(3.88)	0.91	13.944	0.97	1.00
Annual Transmission Charges		-			-	
Depreciation		0.60	0.60	0.60	0.60	0.60
Interest on Lean		0.05	0.01	0.00	0.00	0.00
Return on Equity		2.09	2.09	2.09	2.09	2.09
Interest on Working Capital		0.88	0.91	0.94	11.97	1.00
O&M Expenses		17.02	17.62	16.24	18.88	19.54
Total		20.64	21.22	21.97	22.54	23.23
Norms for O&M per bay	132KV	16.08	16.64	17.23	17.83	18.40
Norms for Old M per km	0/0	0.327	0.391	0.404	0.419	0.433
CANADA AND AND AND AND AND AND AND AND AN	10.77 (10.1	36,074,6	3.5.723	0.400	1,678,137	10,0450

Fineholal Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082 Chief English Commi & NAC TBTFUNBCO, Vidyur Boudha. Hyderabad - 500 082.

CALCULATION OF ANNUAL TRANSMISSION CHRAGES

CALCULATION OF ANNUAL TRANSMISSION Assot-XXXIII:	CHRAGES				(Rs. In I	akhei
132 KV Chillakallu - Kodada	T T					
COD: Rationalised cost of 400ky line (Rs. lakh per ckt km)	10.06.2004 27.2	2009				
Transmission Line length in ckt km	9.84					
No. of hays	1					
Multiplication Factor	0.33					
Life in years	289					
Voltage kv	132	2019-20	2020.21	2021.22	2022-23	2023-24
Particulars	1000000	2019-20 83 97	82.97	82.97	82.97	82.97
Gross Block	_	82.97	80.97	82.97	82.97	82.97
Addition during FY 2019-20 to FY 2023-24	1 1					
due projected additional capitalisation		RF 49	82.97	82.97	82,07	82.97
Gross Block Total	_					
Average Grein Block	_	82.97	82.97	82.97	82.97	82.97
Depreciation						
Rate of depreciation		2.05%	2.05%	2.05%	2.05%	2,05%
Depreciable value	90%	74.67	74.67	74.67	74.67	74.67
Dapsed life as on 31.03.2019	1.050.0017	14.00	15.00	16.00	17.00	18.00
Balance metal life of the asset		13.00	10.00	9.00	8.00	7.00
Remaining depreciable value		17.00	15.50	13.60	11.90	10.20
Cumulative Depreciation		57.62	59.37	61.07	62.78	64.48
Depreciation		1.70	1.70	1.70	1.70	1.70
Interest on loan				100000		70.00
Gross Normative Lean		58.08	58.08	58.08	AR OR	58.08
Cumulative repayment upto previous year		55.97	57.67	58.08	58.08	58.08
Net loan - opening		2.11	0.41	0.00	0.00	0.00
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.00
Repayment during the year		1.70	0.41	0.00	0.00	0.00
Not form - closing		0.41	0.00	0.00	0.00	0.00
Average Loan	_	1.26	0.20	0.00	0.00	0.00
Weighted average rate of interest on loan (%)	-	11.00%	11.00%	11.00%	11.00%	11.00%
Interest	_	0.14	0.02	0.00	0.00	0.00
Return on Equity		1114 30000	The second	1	0.000	00000
Gross Notional Equity		24.89	24.89	24.80	24.89	24.89
Opening Equity		24.89	24.89	24,89	21.89	24.89
Average Faprity		24.89	24.89	24.89	24.89	24.89
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23383%
Return on Equity		5.93	5.93	5.93	5.93	5.93
Interest on Working Capital						
	15% of					
Maintenance Spares	OWM	2.78	2.88	2.98	3.09	5.20
O&M Expenses	17,250,1036	1.56	1.60	1.66	1.71	1.78
Receivables		3.38	3.44	3.53	3.62	
Total		7.71	7.92	8.17	8.42	8.68
Interest on Working Capital	13.50%	1.04	1.07	1.10	1.14	1.17
Annual Transmission Charges						
Depreciation		1.20	1.70	1.70	1.20	1.20
Interest on Loan		0.14	0.02	0,00	0.00	0.00
Return on Equity		5.03	5.03	5.03	5.43	5.93
Interest on Working Capital		1.01	1.02	1.10	1.14	1.17
OfcM Expenses		18.56	19.20	10.80	20.58	21.50
Total	6 W. COLON	27.37	27.92	28.62	29.34	30,11
Norms for O&M per bay	132KV	16.08	10.01	17.23	17.83	16.46
Norms for O&M per kin	5/C	0.252	0.260	0.270	0.279	(1.289)

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyul Bouchs, 16 Hyderabad - 500 gb2.

Chief Engineer/Commi & RAC TSTRANSCO, Vidyut Soudha, Hydurabad - 500 082.

CALCULATION OF ANNUAL TRANSMISSION CHRAGES ASSISTANCE.

CALCULATION OF ANNUAL TRANSMISSION Asset-XXXIV:	CHRAGES				(Rs. In I	tak had
132 KV Sitapuram - KCP	1 1				(ten in	
COD: Rationalised cost of 400ky line (Rs. lakh per ckt km) Transmission Line length in ckt km No. of bays Multiplication Factor Life in years Voltage ky	10.00.2010 52.26 9.37 1 0.31 25 132	2011			200	
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Ciross Block		5.00	5.00	5.99	5.00	5.9
Addition during FY 2019-20 to FY 2023-24						
due projected additional capitalisation			(70.55)			
Gross Block Total		5.99	5.99	5.90	5.99	5.9
Average Gross Block		5,99	5,99	5,49	5,99	5.9
Depreciation						
Rate of depreciation		5.28%	5.28%	5.28%	5.28%	2.055
Depreciable value	90%	5.79	5.39	5.30	5.30	5.34
Elapsed life as on 31.03.2019	10000	8.00	9.00	10.00	11.00	12.0
Bolance useful life of the alsert		17.00	16.00	15.00	14.00	13.0
Remaining depreciable value		2.55	2.23	1.91	1.60	1.4
Cumulative Depreciation		2.80		3,48	3.80	3.9
Depressation		0.35	0.32	0.32	0.32	0.13
Interest on loan						
Gross Normative Loan		4.20 2.53	4.20 2.63	4.30	4.20	4.3
Cumulative repayment upto previous year			2.63	3.16	3.48	3.86
Net four - opening		1.66	1.33	1.03	0.71	0.40
Addition due to additional capitalisation		0.00	0.00	0.00		0.0
Repayment during the year	_	0.32	1.03	0.32	0.32 0.40	0.1
Net loan - closing Average Loan	_	1.51	1.03	0.67	0.56	0.3
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	11.00%	11.003
Interest		0.17	0.13	0.10	0.06	0.0
Harton on Kontra	-		THE RESERVE TO SHARE			
Return on Equity Gross Notional Equity	_	1.80	1.80	1.80	1.80	1.80
Opening Equity		1.80	1.80	1.80	1.80	1.84
Average Equity	_	1.80	1.80	1.80	1.80	1.86
Kate of Return on Equity		23.63%	23.83%	23.83%	23.83%	23.83%
Heturn on Equity		0.43	0.43	0.43	0.43	0.43
Interest on Working Capital	-					
THE THE THE PARTY OF THE PARTY	15% of		_	_		
Maintenance Spares	CM/M	2.43	2.51	2.60	2.69	2.79
Off M. Expenses	100000000000000000000000000000000000000	2.43	2.51	1,44	1.49	1.55
Receivables		2.21	2.27	2.35	5.45	2.46
Total		5.98	6.18	6.39	0.01	6.91
Interest on Working Capital	13.50%	0.81	0.83	0.86	0.89	0.92
Annual Transmission Charges		_		-		
Depreciation		0.32	0.32	0.32	0.32	0.12
Interest on Loan		0.12	0.13	0.10	0.06	0.04
Return on Equity		0.43	0.43	0.43	0.43	0.43
Interest on Working Capital		0.81	0.83	0.86	0.89	0.92
OMM Expenses		10.17	16.74	17.33	17.93	18.07
Total	0.00000	17.89	18.45	19.03	19.63	20.07
Norms for O&M per bay	132KV	16.08	10.64	17.25	12.83	19.40
Norms for OSeM per km	5/C	0.252	0.260	0.350	0.279	0.269

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hydorabad - 500 082

Chief Engineer-Dommi & RAC TETMANECO, Vidyot Boudha, Hydernhed - 500 082

CALCULATION OF ANNUAL TRANSMISSION CHRAGES

CALCULATION OF ANNUAL TRANSMISSION Assot-XXXV:	CHRAGES				(Na. In I	akha)
132 KV Tangeda - Wadapalli	1 1					1900
COD:	26.08.2010	2011				
Rationalised cost of 400ky line (Rs. lakh per ckt km)	52.20					
Transmission Line length in ekt kin	2.30					
No. of bays	1					
Multiplication Factor	0.33					
Life in years	25					
Vultage ky	132					
	100	2019-20 [2020-23	2021-22	2023-23	2021-24
Particulars		38.23	38.33	38.23	18.23	38.23
Caronn Block		38.23	38.23	38.23	191.4.1	38,43
Addition during FY 2019-20 to FY 2023-24						
due projected additional capitalisation		10000000	-	100000		-
Ciross Block Total		38.23	38.23	38.23	38.23	38.23
Average Gross Block		36.23	38.23	39.23	30.23	36.23
Depreciation						
Rate of depressation		5.28%	9.28%	5.28%	5.28%	5.28%
Depreciable value	90%	34.41	34.41	34.41	34.41	34.41
Elapsed life as on 31.03.2019	711.75	6.00	9.00	10.00	11.00	12.00
Balance useful life of the asset	_	12.00	16.00	15.00	14.00	13.00
Remaining depreciable value		16.24	14.22	12.20	10.19	9.40
Cumulative Depreciation	_	18.17	70.19	22.21	24.22	25.01
Depreciation		2.02	2.02	2.09	2.02	0.76
Interest on loan		1000	THE REAL PROPERTY.			
Gross Normative Loan	_	26.76	26.26	26.76	26.76	26.76
Cumulative repayment upto provious year	_	16.15	18.17	20.19	22.21	24.22
Net loan - opening	-	10.61	8.50	6.56	4.50	2.54
Addition due to additional capitalisation	+	0.00	0.00	0.00	0.00	0.00
Repayment during the year		2.02	2.02	2.02	2.02	0.78
Not from - closing	_	6.59	0.58	4.56	2.54	1.75
Average Loan	_	9.60	7.59	5.57	3.55	2.15
Weighted average rate of interest on loan (%)	_	11.00%	11.00%	11.00%	11.00%	11.00%
Interest		1.06	0.83	0.61	0.39	0.24
Return on Equity	-	-	-			
Gross Notional Equity	_	11.47	11.47	31.47	11.47	11.47
Opening Equity	_	11.42	11.47	11.47	11.47	11.47
Average Equity	_	11.47	11.42	11.47	11.47	11.47
Mate of Return on Equity	_	23 83%	23.83%	25,85%	23,83%	23.83%
Return on Equity		2.73	2.73	2.73	2.73	2.73
Interest on Working Capital	-		_	-		-
THE PARTY OF THE P	15% of					
Maintenance Spares	£36/M	2.50	2.39	2.68	2.72	2.87
OMM Expenses		1.39	1.44	1.49	1.54	1.60
Receivables		2.199	2.93	2.98	3.04	2.00
Total		6.78	6.96	2.15	9.35	7.41
Interest on Working Capital	13,50%	0.91	0.94	0.97	0.99	9.480
Annual Transmission Charges						
Depreciation		2.02	2.02	2.02	2.02	0.78
Interest on Loan		1.06	0.83	0.61	0.39	0.24
Return on Equity		2.23	2.73		2.73	
Interest on Working Capital		0.91	0.94	9.75 0.97	0.99	2.75
O&M Expenses		10.02	17.25	12.67	18.49	19.14
Total		23.40	23.78	24.20	24.62	23.90
Norms for O&M per bay	132KV	16.08	16.61	17.23	17.83	18.46
Norms for OaM per km	79/C	0.252	0.260	0.270	0.279	0.289
CONTRACT SCHOOL PROFESSION	747.4	41.279.2	11.299.1	17.4717	15-407.95	41.2399

Financial Advisor and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, 60 Hyderabad - 500 082.

Chief Engineer/Commile RAC 75TRANSCO, Vidyut fioudha, Hydansbad - 500 083

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CALCULATION OF ANNUAL TRANSMISSION CHRACES

CALCULATION OF ANNUAL TRANSMISSION Assot-XXXVI:			(Kn. In lables)			
132 KV Piduguralla - Wadapalli						
(*OF): Rationalised cour of 400kv line (Rs. lakh per ckt km) Transmission Line length in ckr km No. of bays Multiplication Factor Late in years Voltage kv	22.02.2014 94.67 2.36 1 0.31 26	20) 4				
Particulars	7.10	2019-20	2020-21	2021-22	2022-23	2023-24
Gross Black		69.26	69.26	60.26	69.26	64.20
Addition during PY 2019-20 to PY 2023-24 due projected additional capitalisation					-	-
Gross Block Total		69.26	69.26	60.26	69.26	69.2
Average Gross Block		69.26	69.26	69.26	69.26	69.20
23.50mLa0328518000000445000000000000000000000000000	_					
Depreciation			2000	6.000	-	W-800
Hate of depreciation	2000	5.28%	5.28%	5.28%	5.28%	5.28%
Depreciable value	90%	62.33 5.00	62.33	7.00	62.33 8.00	62.3:
Elapsed life as on 31.03.2019		20.00	19.00	18 00	17.00	16.0
Balance useful life of the asset Remaining depreciable value	_	40.39	36.74	33.08	39.43	25.74
Consulative Depres lation	_	21.94	20.60	29.26	32.91	30.5
Depreciation		3.00	3.00	3.66	3.66	3.66
Company of the Compan		1000		110000	THE RESERVE	-
Interest on loan	_	48.48	46.46	48.48	48.48	48.46
Cross Normative Loan	_	18.28	21.94	25.60	29.26	13.91
Cumulative repayment upto previous year Net loan - opening	_	30.20	26.04	22.88	19.23	15.57
Addition due to additional capitalisation	_	0.00	0.00	0.00	0.00	0.00
Repayment during the year		3.66	3.66	3.66	3.66	3.66
Set loan - closing		26.54	22.88	19.25	15.52	11.93
Average Lean		28.37	24.71	21.06	17.40	13.74
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	11.00%	11.00%
Interest		3.12	2.72	2.32	1.91	1.51
Return on Equity	-					
Gross Notional Equity	_	20.78	20.78	20.78	20.78	20.72
Opening Equity		20.78	20.78	20.78	20.78	20.78
Average Equity		20.78	20.78	20.78	20.78	20.79
Rate of Return on Equity		23.83%	21.83%	23.83%	23.83%	21,83%
Return on Equity		4.95	4.95	4.95	4.95	4.96
Interest on Working Capital						
	15% of					
Maintenance Spares	CAM	2.50	2.59	2.68	2.77	2.87
OfeM Expenses	LEPYTO, SPALE	2.50	1.44	1.49	2.77	1.00
Reconvalides		3.63	3.65	3.68	3.71	3.99
Tutal		7.52	7.68	7.65	8.03	6.21
Interest on Working Capital	13,50%	1.02	1.04	1.06	1.08	1.11
Annual Transmission Charges	THE R. P. LEWIS CO., LANSING			-		-
Depreciation	_	3.00	3.66	3.00	3.00	3.66
Interest on Lean		3.12	5.95		1.91	1.5
Return on Equity		4.98	4.95	2.32 4.93	4.93	4.9
Interest on Working Capital		1.02	1.04	1.06	1.08	1.11
O&M Expenses		16.67	17.25	17.87	18.19	19.14
Total	20000000	29.42	29.62	29.85	30.09	30.37
Norms for Old M per bay	TORV	16.08	10.64	17.23	17.83	18.40
Norms for O&M per km	9/C	0.202	0.260	0.270	6329	0.289

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha. Hyderabad - 500 082.

Other Engineer/Domini & PLACE
TSTERANSCO, Vidyur Soudha.
Hydatabad - 500 082

CALCULATION OF ANNUAL TRANSMISSION CHRAGES

Asset-XXXVII: 132 KV A.P.Carbides = @mdwnt=- [ALAIMPUR - II]	1 1				(Rs. In)	
COD:	20.01.1987	1967				
	0	1.987				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	4.00					
Transmission Line length in ckt km	1.00					
No. of bays	1.05					
Multiplication Factor	0.31					
Life in years	25					
Voltage lev	192				2022 22 1	2022 21
Particulars		2019-20	2020-21	2021.22	2022-23	2023-24
Ciross Block		0.00	0.00	0.00	0.00	0.0
Addition during FY 2019-20 to FY 2023-24		200		0.000	F. 1244	
due projected additional capitalisation				6.1		
Gross Block Total		0.00	0.00	0.00	0.00	0.0
Average Gross Block		0.00	0.00	0.00	0.00	0.0
Depreciation	-	The state of the s		11111111111111		1
Rate of depreciation	1000	2.05%	2.09%	2.05%	2.05%	2.059
Depreciable value	90%	0.00	0.00	0.00	0.00	0.0
Elapsed life as on 31.03.2019		32.00	33.00	34.00	35.00	36.0
Balance useful life of the asset		0.00	0.00	0.00	0.00	0.0
Remaining depreciable value	_	0.00	0.00	0.00	0.00	0.0
Cumulative Depreciation		0.00	0.00	0.00	0.00	0.0
Depreciation	_	0.00	0.00	0.00	0.00	0.0
The state of the s		17.00	37.387	17.117	11.11.1	- 100
Interest on loan			V 100		-	
Ciross Normative Loan		0.00	0.00	0.00	0.00	0.0
Cumulative repayment upto previous period/year		0.00	0.00	0.00	0.00	0.0
Net loan - opening		0.00	0.00	0.00	0.00	0.0
Addition the to additional capitalisation		0.00	0.00	0.00	0,00	0.0
Repayment during the year		0.00	0.00	0.00	0.00	0.0
Net loan - closing		0.00	0.00	0.00	0.00	0.0
Average Loan		0.00	0.00	0.00	0.00	0.0
Weighted average rate of interest on loan (%)		33.00%	73.00%	31.00%	11.00%	11,00%
Interest		0.00	0.00	0.00	0.00	0.0
Return on Equity	_	100000		CHILDREN CONTRACTOR	THE RESERVE	
Gross Notional Equity	_	0.00	0.00	0.00	0.00	0.0
Opening Equity		0.00	0.00	0.00	0.00	0.00
Average liquity	_	0.00	0.00	0.00	0.00	0.0
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.839
Return on Equity	_	0.00	0.00	0.00	0.00	0.0
The Later was the same of the Control of the Contro		13,187	0.187	13,183	. 0.00	02,03
Interest on Working Capital						
A CONTROL OF THE PROPERTY OF T	15% of		1200	230		20
Maintenance Spares	O&M	2.59	2.68	1.54	2.87	2.0
O&M Expenses	25000000	1.44	1.40		1,50	1.6
Barriyables			2.31	2.39	2.47	2.5
Total		6.26	6.47	6.71	6.94	7.11
Interest on Working Capital	13.50%	(1.8-4	0.87	0.91	0.94	0.9
Annual Transmission Charges						
Depreciation		0.00	0.00	0.00	0.00	0.0
Interest on Loan		0.00	0.00	0.00	0.00	0.0
Return on Equity		0.00	0.00	0.00	0.00	0.00
Interest on Working Capital		0.84	0.67	0.91	0.94	0.9
O&M Expenses		17.25	17.89	18.19	19.13	19.8
Total	9578000	18.10	18,73	19.39	20.07	20.70
Norms for O&M per bay	13260	16.08	10.04	17.23	17.83	18.4
Norms for O&M por km	8/C	0.252	0.260	0.270	0.279	0.28

Controller of Accounts (Accounts) & Crivet Financial Omder TSTRANSCO, Vidyut Boudha. #2 Hyderabad - 500 082

Chief Laginser/Central & NACI INTRANSCO, Vidyul Soudha, Hyderabed - 500 082,

SATYANARAYANA AND ASSOCIATES

CHARTERED ACCOUNTANTS





Certificate

This is to certify that we have verified relevant records and other documents of Transmission Corporation of Telangana Limited having its registered office at 6-3-572, VIDYUT SOUDHA, KHAIRATABAD, HYDERABAD, TELANGANA-500 082 and on the basis of our verification, we certify that the Capital cost of 400KV Kalpaka - Asupaka is detailed as under:

	The state of the s	agregate to pick					- 0	Amount in	Lakhya
13	Particulars	Freeh old Land	Buildi ngs and Civil Works	Tr. Lines	Sub- Station	PLCC/Com munication System	Equipment including Software	Total	included of in the Tetal
1	Expenditure from 01.04.2014 to 31.03.2015								
2	Expenditure from 01.04.2015 to 31.03.2016								
	Expenditure from 01.04.2016 to 31.03.2017			3056,17				3056.17	320.90
4	Expenditure Form 01.04,2017 to 31.03,2018			195.68				195.68	20.55
	Expenditure from 01.04.2018 to 31.03.2019			10.50				10.39	1.8
	Total			3262.44				3252.44	342.56

We certify that we have verified expenditure upto 31.03.2019 as referred above on the basis of the information drawn from the audited statement of accounts of Transmission Corporation of Telangana Limited as on 31.03.2019.

Further IDC has been calculated @10.50% on an average based on the rate of paid on term loans, since the interest during the construction period includes interest on other works under construction in books of accounts.

Place: Hyderabad Date: 22/06/2020

For M/s. Satyanarayana and Associates, Chartered Accountants

(CA. V. Satyanarayana)

Partner.

M. NO. 204487 FRN: 007663S

UDI No. 20204487AAAABZ1245

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Cruist Displager Council & RAC TREPARISON, Vidyal Sougha,

Hysterbaid - 500 062

Head Office | G-1, B-Block, Matrush Apartments, Hyderguda, Hyderabad - 500 029.

Tracks: 9391021127.8302021939 Ph; 040 40128176, Fax : 23296543, Email : satyum_vinnakota@yahoo.com

B.Office | H.No: 20-145/6, 1st Floor, Dayanand Nagar, Malkajgin, Hyderabad 500047.

Summary Sheet

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

Continue Brown

Name of the Transmission Element or

400 KV Kalpaka - Asupaka

Communication System

(Amount in Rs, Lakh)

SI. No.	Particulars	Form No.	2019-20	2020-21	2021-22	2022-23	2023-24
1	2		3	4	6	5.	6
1.1	Depreciation	10A	172.26	172.26	172.26	172.26	172.26
1.2	Interest on Loan	9E	210.71	191.76	172.81	153.86	134.92
1.3	Return on Equity	8	233.19	233.19	233.19	233.19	233.19
1.4	Interest on Working Capital	11	12.74	12.50	12.26	12.03	11.79
1.5	O & M Expenses		47.13	48.78	50.50	52.27	54.10
11,170	Total		676.02	658.49	641.02	623.60	606.25

(Petitioner)

Chief Engineer/Commit & RAG TETRANSCO, Vlayer Soudha, Hyderaturo - 500 082.

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Souths, Lydprehad - 500 062,

Normative parameters considered for tariff computations

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

Name of the Transmission Element or

400 KV Kalpaka - Asupaka

Communication System

(Amount in Rs.Lakh)

					Amount in oa	CERTAIN
Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	6	5	6
Base Rate of Return on Equity	16	15.500	15.500	15.500	15,500	15.500
Tax Rate	15	30.000	30,000	30.000	30.000	30.000
Effective tax rate	15	34.944	34.944	34.944	34.944	34.944
Target Availability	24	98.000	98,000	98.000	98.000	98.000
Normative O&M per km	Rs. Lakh	0.881	0.912	0.944	0.977	1.011
Normative O&M per bay	Rs. Lakh	32.150	33,280	34,450	35,660	36.910
Spares for WC as % of O&M	15	15,000	15,000	15,000	15.000	15.000
Receivables in Days for WC	Days	45	45	45	45	45
Bank Rate as on 01.04.2014	%	11.00%	11.00%	11.00%	11.00%	11.00%

(Petitioner)

Chief Emploser/Commit & RAC TETRANSCO, Viayut Soudha, Hydrodood + 500 082,

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderebad - 500 083.

ABSTRACT OF ADMITTED PARAMETERS FOR THE EXISTING TRANSMISSION ASSETS

Name of the Petitioner:

Transmission Corporation of Telangana

Name of the Region:

Limited Telangana

Name of the Project

Name of the Transmission Element or

400 KV Kalpaka - Asupaka

Communication System

(Amount in lakhs)

	(Amount in lakhs)
Date of Commencement	10-Aug-17
Petition Number	
Tariff Order Date	
PARTICULARS	Capital Expenditure admitted as on 31.03.2024
Apportioned approved Cost/ Revised cost estimates, if any (with reference and date of approval)	3,262.44
Freehold Land	
Leasehold Land	5
Building and Other Civil Works	200000
Transmission Line	3,262.44
Sub-Station Equipments	
PLCC	
Total:	3,262.44
Notional Loan	
Notional Equity	
Total :	
Debt Equity Ratio	70:30
Debt	2283.71
Equity	978.73
Total:	3262.44
Cumulative amount of depreciation	1143.34
Cumulative repayment of loan	1143.34
Initial Spares	

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 800 082 (Petitioner)

Chief Engineer/Commi & RAC TSTRANSCO, Vidual Southal Hyderabed - 500 CR2

Statement of Capital cost

Name of the Petitioner: Name of the Region: Name of the Project: Name of the Transmission Element or Communication System

Transmission Corporation of Telangana Limited Telangana

400 KV Kalpaka - Asupaka

	1.0				(Amount is	n (En.Lah.li)
5.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	a) Opening Gross Block Amount as per books	3262.44	3262.44	3262.44	3262.44	3262.44
	b) Amount of capital liabilities in A(a) above	100000		1.0.10		
	c) Amount of IDC included in A(a) above	342.56	342.56	342.56	342.56	342.56
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above					+
В	a) Addition in Gross Block Amount during the period	0.00	0.00	0.00	0.00	0.00
	b) Amount of capital liabilities in B(a) above					
	c) Amount of IDC included in B(a) above	0.00	0.00	0.00	0.00	0.00
	d) Amount of IEDC (excluding IDC, PC, FERV & Hedging cost) included in B(a) above		1.0		4.0	
C	a) Closing Gross Block Amount as per books	3262.44	3262.44	3262.44	3262.44	3262.44
	b) Amount of capital liabilities in C(a) above			-		
1	c) Amount of IDC included in C(a) above	342.56	342.56	342.50	342.56	342.56
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above					-

Financial Advisor and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Woyut Soudha, Hyderabad - 500 082,

Chart Engineer Commit & RAC TSTRANSCO, Vidyut Soudha, Hydorabad - 500 082-

Statement of Capital Works in Progress

Name of the Petitioner: Name of the Region: Name of the Project:

Name of the Transmission Element or

Communication System

Transmission Corporation of Telangana Limited

Telangana

400 KV Kalpaka - Asupaka

CA			

S.No.	Particulars	2019-20	2020-21	3021-23	2022-23	2623-24
Α	a) Opening CWIP amount as per books	10+01	-		+	-
-	b) Amount of capital liabilities in a above					- 1
	c) Amount of IDC included in (a) above		-		- 00	-
В	a) Addition/Adjustment in CWIP Amount during the period	346	8	0 = 50	-	
	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above	-	(5)			
C	a) Capitalisation/Transfer to Fixed Asset of CWIP		+	+	120	1.4
	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above	+	240		2.43	
D	a) Closing CWIP Amount as per books	+		-	(+)	
	b) Amount of capital liabilities in a above					
	c) Amount of IDC: included in (a) above		100		+	

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082 (Petitioner)

Chief Engineer/Commi & RAC TSTPANSGO, Vidyul Soudhill, Mystershad - 500 062.

Financial Package upto COD

Name of the Petitioner: Name of the Region: Name of the Project:

Transmission Corporation of Telangana Limited Telangana

Name of the Transmission Element or Communication System

400 KV Kalpaka - Asupaka

					(Amount	in Rs.Lakh)
Particulars		Financial Package as Financi Approved		kage as on O	As Admitted on COD	
	Currency a	nd Amount	Currency and	d Amount	Currency a	and Amount
1	2	3 :	4	5	6	7
Loan-I		2283.71		2283.71		2283.71
Loan-II						
Loan-III		and the same		1		- Constant
Total Loans		2283.71		2283.71		2253.71
Equity-		978.73		978.73		.978.23
Foreign						
Domestic		1				
Total Equity		978.73		978.73		978.7
Debt : Equity Ratio		70:30		1 327 0 227		0000000
Total Cost	7.0	3262.44		3262.44		3262.44
1/10001004110	Debt	Equity	Total			
Add cap for 2013-14	-					
Add cap for 2014-15			-			
Add cap for 2015-16	-	-	-			
Add cap for 2016-17						
Add cap for 2017-18	2276.30	975.56	3251.85			
Add cap for 2018-19	7.41	3.18	10.59			
	2283,71	978.73	3262.44			
Add cap for year-1	Actual	Normative				
Debt						
Equity						
Total	10 10	100 000				
Add cap for year-2	Actual	Normative				
Debt						
Equity					-	
Total						
Total Capital Cost with add cap.		U				

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudhs, Hyderabad - 500 082.

(Petitioner) Chief Engineer/Commt & RAG TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082.

Attinhand

Calculation of Return on Equity

Name of the Petitioner: Name of the Region:

Name of the Project:

Name of the Transmission Element or Communication System

Transmission Corporation of Telangana Limited

Telangana

400 KV Kalpaka - Asupaka

		Lakh)

				(Amount	in Es.Lakh)
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
2	3	4	0.		
Equity as on COD/Admitted equity	978.73	978.73	978.73	928.73	978.23
Additional Capital made during the year.	0.00	0.00	0.00	0.00	0.00
Clsoing Equity	978.73	978,73	978.73	978.73	978,73
Average Equity	978.73	978,73	978.73	978.73	978.73
Return on Equity(%)	15.500	15,500	15,500	15.500	15.500
Tax rate for respective year(%)	34.944	34,944	34,944	34,944	34.944
Rate of Return on Equity(%)	23.826	23.826	23.826	23.826	23.826
Return on Equity*	233,19	233.19	233.19	233.19	233.19
	2 Equity as on COD/ Admitted equity Additional Capital made during the year. Closing Equity Average Equity Beturn on Equity(%) Tax rate for respective year(%) Rate of Return on Equity(%)	2 3 Equity as on COD/Admitted equity 978.73 Additional Capital made during the year. 0.00 Clooring Equity 978.73 Average Equity 978.73 Return on Equity(%) 15.500 Tax rate for respective year(%) 34.944 Rate of Return on Equity(%) 23.826	2 5 4 Equity as on COD/ Admitted equity 978.73 978.73 Additional Capital made during the year. 0.00 0.00 Choirig Equity 978.73 978.73 Average Equity 978.73 978.73 Beturn on Equity(%) 15.500 15.500 Tax rate for respective year(%) 34.944 Rate of Rehum on Equity(%) 23.826 23.826	2 5 4 6 Equity as on COD/ Admitted equity 978.73 978.73 978.73 978.73 Additional Capital made during the year. 0.00 0.00 0.00 Clooring Equity 978.73 978.73 978.73 978.73 Average Equity 978.73 978.73 978.73 Beturn on Equity(%) 15.500 15.500 15.500 Tax rate for respective year(%) 34.944 34.944 Rate of Rehum on Equity(%) 23.826 23.826	Particulars 2619-20 2620-21 2621-22 2022-23 2 3 4 6 5 Equity as on COD/ Admitted equity 978.73

H Charles (Petitionser)

Chief Engineer/Control & RAC TSTRANSCO, Vidyur Soudha Hyderuhad - 500 052,

Finishcial Adviser and Chief Controlle of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082.

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

400KV Kalpaka-Asupaka

Name of the Transmission Element or Communication System

				(Amount is	n Rs.Lakh)
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Loan-1	-				
Gross Ioan - Opening	2,283.71	2,283.71	2,283.71	2,283.71	2,283.71
Cumulative repayments of Loans upto previous year	14	228.37	456.74	685.11	913.48
Net loan - Opening	2,283.71	2,055.34	1,826.97	1,598.60	1,370.23
Add: Drawal(s) during the Year	+			-	
Less: Repayment (s) of Loans during the year	228.37	228.37	228.37	228.37	228.37
Net loan - Closing	2,055.34	1,826.97	1,598.60	1,370.23	1,141.86
Average Net Loan					
Rate of Interest on Loan on annual basis	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on loan	239.73	214.60	189.48	164.36	139,24
Loan repayment effective from (date to be indicated)	Apr-19				

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Souths, Hyderabed - 500 082.

(Petitioner)

Chief Engineer/Commi & RAC TETPANSCO, Vioyut Soudha, Hydershod - 500 092.

Calculation of Interest on Normative Loan

Name of the Petitioner: Name of the Region:

Transmission Corporation of Telangana Limited

Telangana

Name of the Project:

Name of the Transmission Element or

400 KV Kalpaka - Asupaka

Communication System

(Amount in Rs.Lakh)

				(Amount in	Rs.Lakh)
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3.	5	4	5
Gross loan - Opening	2283.71	2283.71	2283.71	2283.71	2283.71
Cumulative repayment of Normative Loan upto previous year	282.05	454.31	626.57	798.82	971.08
Net Normative loan - Opening	2001.66	1829.40	1657.14	1484.89	1312.63
Increase/Decrease due to ACE/de- capitalisation during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment of Loans during the year	172.26	172.26	172.26	172.26	172.26
Net Normative Ioan - Closing	1829.40	1657.14	1484.89	1312.63	1140.37
Average Normative Loan	1915.53	1743.27	1571.01	1398.76	1226.50
Rate of Interest of actual loans	11.00%	11.00%	11,00%	11.00%	11.00%
Interest on Normative Ioan	210.71	191.76	172.81	153.86	134.92

Fhancial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudia, Hyderabad - 500 082.

think

(Petitioner)
Chief Engineer/Commi & RACI
TSTRANSCO, Vidyut Soudha.
Hyderabad - 500 082

PART-III FORM-10A

Statement of Depreciation

Name of the Petitioner: Name of the Region: Name of the Project:

Name of the Transmission Element or

Communication System

Transmission Corporation of Telangana Limited Telangana

400 KV Kalpaka - Asupaka

(Amount in Rs.Lakh)

				- (Amount in Rs.	Lakhi
SI.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	6	5	6
1	Opening Capital Cost	3262.44	3262.44	3262.44	3262.44	3262.44
2	Closing Capital Cost	3262.44	3262.44	3262.44	3262.44	3262.44
3.	Average Capital Cost	3262.44	3262.44	3262.44	3262.44	3262.44
4	Freehold land	-	-	-	-	+
5	Rate of depreciation	5.28%	5.28%	5.28%	5.28%	5,28%
6	Depreciable value	2936.20	2936:20	2936.20	2936.20	2936.20
7	Balance useful life at the beginning of the period	23	22	21	20	19
8	Remaining depreciable value	2481.89	2309.63	2137.37	1965.12	1792.86
9	Depreciation (for the period)	172.26	172.26	172.26	172.26	172.26
10	Depreciation (annualised)	172.26	172.26	172.26	172.26	172.26
11	Cumulative depreciation at the end of the period	454.31	626.57	798.82	971.08	1143.34
12	Less: Cumulative depreciation adjustment on account of de-capitalisation				- 3	- 4
13	Net Cumulative depreciation at the end of the period	454.31	626.57	798.82	971.08	1143.34

Fiduncial Adviser and Chief Controler of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082, H tenhand (Petitioner)

(Petitioner)
Chief Engineer/Commi & PATTATRANSCO, Vidyut Southan Myderabard - 500 081.

Calculation of Interest on Working Capital

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

Name of the Transmission Element or Communication System 400 KV Kalpaka - Asupaka

					(Amount in Rs.Lakh)	
SL No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	- 6	5	.6
1	O & M Expenses	3,93	4.07	4,21	4.36	4.51
2	Maintenance Spares	7.07	7.32	7.57	7.84	8.11
3	Receivables	83.35	81.19	79.03	76.88	74.75
4	Total Working Capital	94.34	92.57	90.81	89.08	87.37
5	Rate of Interest	13.50%	13.50%	13.50%	13.50%	13.50%
6	Interest on Working Capital	12.74	12.50	12.26	12.03	11.29

A. Wichmond (Petitioner)

Chief Engineer/Commi & RAC TSTRANSCO, Vidyut Soudha, Hydarabab - 500 082.

Financial Advisor and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Souths, Hyderabad - 500 082.

SATYANARAYANA AND ASSOCIATES CHARTERED ACCOUNTANTS

III O OF ASSETS - IV & Y - 400 KV VTTC - SUF MPET-18 II



Certificate

This is to certify that we have verified relevant records and other documents of Transmission Corporation of Telangana Limited having its registered office at 6-3-572, VIDYUT SOUDHA, KHAIRATABAD, HYDERABAD, TELANGANA-500 082 and on the basis of our verification, we certify that the Capital cost of 400KV VTPS- Suryapet-1&II is detailed as under:

_			1000000				()	Amount in	Lukhs).
S. No	Particulars	Freeh ose Land	Buildi ngs and Civil Works	Tr. Lines	Sub- Station	PLCC/Com munication System	Equipment including Software	Total	IDC Include ed in the Total
1	Expenditure from 01.04.2014 to 57.03.2015	11.00							7 (-0)
-	Expenditure from 01.04.2015 to 31.03.2016			625.20				625.20	65.85
1	Expenditure from 01.04.2016 to 31.03.2017								
4	Expenditure from 01.04.2017 to 31.03.2018								
*	Expenditure from 01.04.2018 to 31.03.2019								
	Yorai			625,20				625,20	65.65

We certify that we have verified expenditure upto 31.03.2019 as referred above on the basis of the information drawn from the audited statement of accounts of Transmission Corporation of Telangama Limited as on 31.03.2019.

Further DC has been calculated @10.50% on an average based on the rate of paid on term loans, since the interest during the construction period includes interest on other works under construction in books of accounts.

Place: Hyderabad Date: 22/06/2020 do o

For M/s. Satyanarayana and Associates, Chartered Accountants

ATHE

(CA. V. Satyanarayana) Partner.

M. NO. 204487 FRN: 007663S

UDI No. 20204487AAAACC5073

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Chief Engriee/Commit & RAG TGTT/UNSCO, Violet Soudha, Mydenziad - 500 082.

Summary Sheet

Name of the Petitioner:

Name of the Region:

Name of the Project:

Name of the Transmission Element or

Communication System

Transmission Corporation of Telangana Limited

Telangana

400KV VTPS- Suryapet-I&II

(Amount in Rs.Lakh)

					(Amount in Receiver)			
SI. No.	Particulars	Form No.	2019-20	2020-21	2021-22	2022-23	2023-24	
1	2		3	4	6	5	6	
1.1	Depreciation	10A	33.01	33.01	33.01	33,01	33.01	
1.2	Interest on Loan	96	35.41	31.78	28.15	24.52	20.89	
1.3	Return on Equity	8	44.69	44.69	44.69	44.69	44.69	
1.4	Interest on Working Capital	- 11	5,16	5.21	5.27	5.33	5.40	
1.5	O & M Expenses		66.33	68.66	71.07	73.57	76.15	
	Total		184.60	183.35	182.19	181.12	180.13	

Centroller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Souths, Hyderabad - 500 062.

(Petitioner)

Chief Engineer/Commi & RAC TETHANSCO, Volvat Soudha Hydurahod - 500 082.

Normative parameters considered for tariff computations

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

Name of the Transmission Element or

400KV VTPS- Suryapet-I&II

Communication System

(Amount in Rs.Lakh)

					Amount in ISS.E	array
Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	6	5	6
Base Rate of Return on Equity	55	15.500	15.500	15.500	15,500	15.500
Tax Rate	5.5	30.000	30.000	30.000	30.000	30.000
Effective tax rate	16.	34.944	34.944	34.944	34.944	34.944
Target Availability	%	98,000	98,000	98.000	98.000	98.000
Normative O&M per km	Rs. Lakh	0.881	0.912	0.944	0.977	1.011
Normative O&M per bay	Rs. Lakh	32.150	33.280	34.450	35.660	36.910
Spares for WC as % of O&M	76	15.000	15,000	15.000	15.000	15.000
Receivables in Days for WC	Days	45	45	45	45	45
Bank Rate as on 01.04,2014	1 15	11.00%	11.00%	11.00%	11.00%	11.00%

(Petitioner)
Chief Engineer/Commit & RAC TSTRANSCO, Veryut Southa, Myderalised - 500 (82)

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudhs. Hyderabad - 500 082.

ABSTRACT OF ADMITTED PARAMETERS FOR THE EXISTING TRANSMISSION ASSETS

Name of the Petitioner:

Transmission Corporation of Telangana

Limited Telangana

Name of the Region: Name of the Project:

Name of the Transmission Element or

400KV VTPS- Suryapet-1&II

Communication System

	(Amount in lak				
Date of Commencement	30-Mar-16				
Petition Number					
Tariff Order Date					
PARTICULARS	Capital Expenditure admitted as on 31.03.2024				
Apportioned approved Cost/ Revised cost estimates, if any (with reference and date of approval)	625.20				
Freehold Land					
Leasehold Land					
Building and Other Civil Works					
Transmission Line	625.20				
Sub-Station Equipments					
PLCC	The state of the s				
Total:	625.20				
Notional Loan	7,00000				
Notional Equity					
Total:					
Debt Equity Ratio	70:30				
Debt	437.64				
Equity	187.56				
Total:	625.20				
Cumulative amount of depreciation	264.27				
Cumulative repayment of loan	264.27				
Initial Spares					

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha. Hyderabad - 500 082.

Chief Engineer/Commi & RAO 18TRANSCO, Wyut Soudha, Hyderabad - 500 082.

Statement of Capital cost

Name of the Petitioner: Name of the Region: Name of the Project:

Telangana

Name of the Transmission Element or Communication System

400KV VTPS- Suryapet-16:II

Transmission Corporation of Telangana Limited

		141	16	- 0	(Amount in E	(n.Lahh)
5.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Α.	a) Opening Gross Block Amount as per books	625.20	625.20	625.20	625.20	625.20
7	b) Amount of capital liabilities in A(a) above					
	c) Amount of IDC included in A(a) above	65,65	60.65	65.60	65.65	65.65
1 8	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	20	20		_ £	. 9
В	a) Addition in Gross Block Amount during the period	-			+	
	b) Amount of capital liabilities in B(a) above					
	c) Amount of IDC included in B(a) above	100	+		+	
1 3	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above		- +	- 54	+	- 4
C	a) Closing Gross Block Amount as per books	625.20	623.20	625.20	625.20	625.20
3444	1) Amount of capital liabilities in C(a) above	7.77	200	33,234		
	c) Amount of IDC included in C(a) above	65.65	65,65	65,65	65.65	69.60
	d) Amount of IEDC (excluding IDC, PC, PERV & Hedging cost) included in B(a) above.			20.0000		

Controller of Accounts (Accounts) & Chief Pinancial Officer TSTRANSCO, Vidyut Souchs, Hyderabad - 500 082.

Chief Engineer/Commi & RAC TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082,

Statement of Capital Works in Progress

Name of the Petitioner Name of the Region: Name of the Project: Name of the Transmission Element or Communication System

Transmission Corporation of Telangana Limited

Telangana

400KV VTPS- Suryapet-I&II

- 1	Amoun	t in	264	.I.ak	h)
7		_	_	_	
-1	2022-1	2.3		202	9-24

					distinction of the same	
5.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	a) Opening CWIP amount as per books		-	+	-	
	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above	- 4	-	5+1		
В	a) Addition/Adjustment in CWIP Amount during the period	247		1.0	্ৰ	9
	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above	+	-	-	-	
C	a) Capitalisation/Transfer to Fixed Asset of CWIP	741	7-0.0		4	- 14
	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above	-	-			
D	a) Closing CWIP Amount as per books		+	-	-	-
	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above.	(4:1			- +	- 4

(Petitioner)

Chief Engineer Commit & FAC TSTHANSOD, Volyat Soudha, Hydurchea - 500 082,

Controller of Accounts (Accounts) & Chief Purancial Officer TSTRANSCO, Vidyut Soudha, Mycferabad + 500 082.

Financial Package upto COD

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project: Name of the Transmission Element or

400KV VTPS- Suryapet-I&II

Communication System

					(Amount)	n Rs.Lakh)	
Particulars		Package as roved	Financial Package as on COD As Admitted			ed on COD	
5900000 91 9790	Currency a	and Amount	Currency and	f Amount	Currency and Amount		
1	2	3	4	-5	- 6	7	
Loan-I		437.64		437.64		437.64	
Loan-II		5072007		10777			
Loan-III							
Total Loans		437.64		437,64		437.64	
Equity-		187.56		187.56		187.56	
Foreign							
Domestic				manual.			
Total Equity		187.56		187.56		187.56	
Debt : Equity Ratio		70:30		- 77		77.5	
Total Cost		625.20		625.20		625.20	
	Debt	Equity	Total			-	
Add cap for 2013-14	-	1-	-				
Add cap for 2014-15		-					
Add cap for 2015-16	437.64	187.56	625.20				
Add cap for 2016-17	-		-				
Add cap for 2017-18			+				
Add cap for 2018-19	-	-					
	437.64	187.56	625.20				
Add cap for year-1	Actual	Normative					
Debt							
Equity							
Total							
Add cap for year-2	Actual	Normative					
Debt							
Equity							
Total							
Total Capital Cost with add cap.							

Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Souths, Hyderabad - 500 082.

Charle Engineery Charles & BAC TETHANSCO, Vidyut Soudha

Hydernbod - 500 082.

Calculation of Return on Equity

Name of the Petitioner: Name of the Region: Name of the Project:

Transmission Corporation of Telangana Limited

Telangana

Name of the Transmission Element or

400KV VTPS- Suryapet-I&II

Communication System

_			Lakb)			
SI. No.		2015-20	2020-21	2021-22	2022-23	2023-24
1	2	- 3	4	6	5	.6
1.1	Equity as on COD/Admitted equity	187.56	187.56	187.56	187.56	187.56
1.2	Additional Capital made during the year.					
1.3	Clsoing Equity	187,56	187.56	187.56	187.56	187.56
1.4	Average Equity	187.56	187,56	187.56	187,56	187.56
1.5	Return on Equity(%)	15.500	15.500	15,500	15.500	15.500
1.6	Tax rate for respective year(%)	34,944	34.944	34.944	34.944	34.944
1.7	Rate of Return on Equity(%)	23.826	23.826	23.826	23.826	23.826
1.8	Return on Equity*	44.69	44.69	44.69	44.69	44.69

Atinhow of

(Petitioner)
Charl Engineer/Assamt & RAC
ESTRARSOO, Vidyut Soudha.
Hadembar - 500,082;

Controller of Accounts (Accounts) 8 Chief Financial Officer TSTRANSCO, Vidyut Southa, Hyderabad - 500 082.

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

400KV VTPS-Suryapet-I&II

Name of the Transmission Element or Communication System

				(Amount in	Rs.Lakh)
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Loan-I					1112
Gross loan - Opening					
	437.63	437.63	437.63	437.63	437.63
Cumulative repayments of Loans upto previous year	76,58	120.34	164.11	207.87	251.64
Net loan - Opening	361.05	317.29	273.52	229.76	185.99
Add: Drawal(s) during the Year	-		-		
Less: Repayment (s) of Loans during the year	43.76	43.76	43.76	43.76	43.76
Net loan - Closing	317.29	273.52	229,76	185.99	142.23
Average Net Loan					
Rate of Interest on Loan on annual basis	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on loan	37.11	32.30	27.49	22.67	17.86
Loan repayment effective from (date to be indicated)					

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vioyut Soudha, Hyderabad - 500 082. (Petitioner)

Chief Engineer/Commi & RAC TSTRANSCO, Vidyut Soudha, Hyddrahad - 500 082,

Calculation of Interest on Normative Loan

Name of the Petitioner: Name of the Region:

Transmission Corporation of Telangana Limited

Telangana

Name of the Project:

Name of the Transmission Element or

400KV VTPS- Suryapet-I&II

Communication System

(Amount in Ry Lakh)

The state of the s	(Amount in Rs.Lakh)				
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	5	4	5
Gross Ioan - Opening	437.64	437.64	437.64	437,64	437.64
Cumulative repayment of Normative Loan upto previous year	99.21	132.22	165.23	198.24	231.25
Net Normative loan - Opening	338.43	305.42	272.41	239.40	206.39
Increase/Decrease due to ACE/de- capitalisation during the year	-	-	11-	-	
Less: Repayment of Loans during the year	33.01	33.01	33.01	33.01	33.01
Net Normative loan - Closing	305.42	272.41	239.40	206,39	173.37
Average Normative Loan	321.92	288.91	255.90	222,89	189.88
Rate of Interest of actual loans	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on Normative loan	35.41	31.78	28.15	24.52	20.89

Cantroller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Saucha, Hyderabad - 500 062.

Chief Engineer/Donnil & RAC TETRANSCO, Vidyut Soudha. Hyderabad - 500 082.

PART-III FORM-10A

Statement of Depreciation

Name of the Petitioner: Name of the Region: Name of the Project:

Name of the Transmission Element or

Communication System

Transmission Corporation of Telangana Limited Telangana

400KV VTPS- Suryapet-I&II

(Amount in Rs.Lakh)

100000000000000000000000000000000000000	
2022-23	2023-24
5	- 6
625.20	625.26
625.20	625.20
625.20	625,20
-	-
5.28%	5.283
562.68	562.68
18	17
331.43	298.41
33.01	33.07
33.01	33.01
231.25	264.27
231.25	264.27
3 3 4 4 4	562.68 18 331.43 33.01 33.01 231.25

Financial Advicer and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082 Chief Engineer Commit & RAC TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082.

Calculation of Interest on Working Capital

Name of the Petitioner: Name of the Region: Transmission Corporation of Telangana Limited

Telangana

Name of the Project:

Name of the Transmission Element or

400KV VTPS- Suryapet-I&II

Communication System

					Amount in Rs.	J18(21)
Sl. No.	Particulars.	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	6	5	6
1	O & M Expenses	5.53	5.72	5.92	6.13	6.35
2	Maintenance Spares	9.95	10.30	10.66	11.04	11.42
3	Receivables	22.76	22.61	22,46	22.33	22.21
4	Total Working Capital	38.24	38.63	39.05	39.50	39.98
5	Rate of Interest	13.50%	13.50%	13.50%	13.50%	13,50%
6	Interest on Working Capital	5.16	5.21	5.27	5.33	5.40

(Petitioner)

Cruel Engineer/Control & FAO TETRANSCO, Volyul Southa, Hyderobite - 500 082.

Heichon

Financial Adviser and Chief Gontroller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082

SATYANARAYANA AND ASSOCIATES

CHARTERED ACCOUNTANTS





Certificate

This is to certify that we have verified relevant records and other documents of Transmission Corporation of Telangana Limited having its registered office at 6-3-572, VIDYUT SOUDHA, KHAIRATABAD, HYDERABAD, TELANGANA-500 082 and on the basis of our verification, we certify that the Capital cost of 220KV Srisailam — Domalapenta is detailed as under:

			10000			Total energy		Amount is	
S. No.	Particulars	Free hold Land	Buildings and civil works	Tr. Lines	Sub- station	PLCC/ Commu nication system	equipment including Software	Total	IDC Inclu. in the Total
1	Expenditure from 01.04.2018 to 31.03.2019			18.01				18.01	1.98
2	Expenditure from 01.04.2019 to 31.03,2020			4.25				4.25	0.47
3	Expenditure from 01.04.2020 to 31.03.2021			8.15				8,15	0.90
4	Expenditure from 01.04.2021 to 31.03.2022								-
5	Expenditure from 01.04.2022 to 31.03.2023								
6	Expenditure from 01.04.2023 to 31.03.2024								
	Total			30.41				30.41	3.35

We certify that we have verified expenditure till date as referred above on the basis of the information drawn from the audited and provisional statement of accounts of Transmission Corporation of Telangana Limited.

Further IDC has been calculated @11.00% on an average on the rate of interest paid on term loans, since the interest during the construction period includes interest on other works under construction in books of accounts.

Place: Hyderabad Date: 18.02.2021

For M/s.Satyanarayana and Associates,

Chartered Accountants

(CA.V.Satyanarayana)

Partner.

M.No.204487 FRN: 007663S

UDI No.21204487AAAADA8534

107

4YD-500 02

Summary Sheet

Name of the Petitioner. Name of the Region: Name of the Project:

Transmission Corporation of Telangana Limited Telangana

Name of the Transmission Element or

220 KV Srisailam - Domalapenta line

Communication System

45	et l					(Amount in Rs.Lakh)			
SL No.	Particulars	Form No.	2019-20	2020-21	2021-22	2022-23	2023-24		
1	2		3	4	6	5	6		
	Depreciation	10A	1.12	1.39	1.61	1.61	1.61		
	Interest on Loan	9E	1.58	1.83	1.98	1.80	1.62		
	Return on Equity	8	1.52	1.88	2.17	2.17			
1.4	Interest on Working Capital	11	1.12		1.28	1.32	2.17		
1.5	O & M Expenses		21.60	23.38	24.20		1.36		
	Total		26.94	The second secon		25.04	25.93		
			20.91	29.71	31.24	31.94	32.69		

For M/s.Satyanarayana & Associates,

Chartered Accountants

VS NO S (CA.V.Satyanarayana)

partner M.No.204487 FRN:0076638

UDIN: 21204487AAAADA8534

Count For (Petitioner) A PAC TSTRANSCO, Vieyut Soudha. Myderahad - 500 082

Financial Advisor and Chief Controller of Accounts (Accounts) a Chief Financial Officer TSTRANSCO, Vidyur Southus, Hyderabad - 500 082.

Normative parameters considered for tariff computations

Name of the Petitioner:

Transmission Corporation of Telangara Limited

Name of the Region:

Telangana

Name of the Project.

220 KV Srisailam - Domalapenta line

Name of the Transmission Element or Communication System

Service and the service and th	Amount in Ra.Lakh)					
Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	6	3	6
Base Rate of Return on Equity	56	15,500	15,300	15.500	15.500	15.500
Tax Rate	- 5	30.000	30.000	30.000	30,000	30,000
Effective tax rate	5	34.944	34,944	34.944	34.944	34.94
Target Availability	5	98.000	98.000	98.000	98:000	98,000
Normative O&M per km	Rs. Lakh	0.377	0.391	0.404	0.419	0.430
Normative O&M per bay	Rs. Lakh	22.510	23.300	24.120	24.960	25.840
Spares for WC as % of O&M	15	15.000	15,000	15.000	15,000	15,000
Receivables in Days for WC	Days	45	45	45	45	45
Bank Rate as on 01.04.2019	50	11.00%	11.00%	11.00%	11.00%	11.00%

For M/s.Satyanarayana & Associates,

Chartered Accountants

Nr al (CA.V.Satyanarayana)

partner

M.No.204487 FRN:0076638

LIDIN: 21204487AAAADA8534

Winhows

Chief Engineer/Commi & RAC TSTRANSCO, Vidyut Soudha,

Hyderabad - 500 082,

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyus Soudha, Hyderabad - 500 082.

ABSTRACT OF ADMITTED PARAMETERS FOR THE EXISTING TRANSMISSION ASSETS

Name of the Petitioner:

Transmission Corporation of Telangana

Limited

Name of the Region: Name of the Project: Telangana

Name of the Transmission Element or

220 KV Srisallam - Domalapenta line

Communication System

17 1 10
17-Apr-19
Capital Expenditure admitted as on 31.03.2024
30.41
30.41
30.41
70:30
21.29
9.12
30.41
7.33
7.33

for M/s. Satyanarayana and Associates

Chartered Accountants 1245A

(CA.V.Satyanarayana)

Pariner MLNo.204487 FRN:007663S

UDIN: 21204487AAAADA8534

Atticha

Chief Engineers Anna & RAC TSTRANSCO, Vidyus Southa. Hyderolises - 500 052

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Cilities TSTRANSCO, Vigyut Squaha, Hydarabad - 500 082

Statement of Capital cost

Name of the Petatoper: Name of the Region Name of the Project Name of the Transmission Element or Communication System

Transmission Corporation of Telangena Limited Telangena

220 KV Srisailam - Domalapenta line

300					(Amount in Re.Lahb)		
5,No.	Particulars	2019-20	2026-21	2021-22	2022-23	2023-01	
A	Opening Gross Block Amount as per books	0.00	22.27	20.41	30.41	30.41	
	b) Amount of capital habilities in A(a) above	-		100.41	-0.41		
	c) Amount of IDC included in A(a) above	0.00	2.45	3.35	3.35	3.30	
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above				300		
B	a) Addition in Gross flock Amount during the period	22.27	8.15				
	b) Amount of capital liabilities in B(a) above		6.13	-	-	_	
	c) Amount of IDC included in B(a) above	2.45	0.90	-	-		
	d) Amount of IEDC (excluding IDC, PC, FERV & Hedging cost) included in II(a) above						
C	a) Closing Gress Block Amount as per books	22.27	30.41	30.41			
	 Amount of capital liabilities in C(a) above 	20,07	30.41	30.41	30.41	30.41	
	c) Amount of IDC included in C(a) above	2.45	3.35	3.35	3.35	3.38	
	d) Amount of IFDC (evoluting IDC, FC, FERV & Hedging cost) included in Bia) above	-	900		3.33	7.35	

For M/s. Satyanarayana and Associates

Chartered Accountants

(CA.V.Satyanarayana)

Partner M.no.204487 FRN 0076639

UDIN: 21204487AAAADA8534

Chief Equitions) open & Fact TS7Ho(Chiefes) open & Goodha. Hyderahad - 500 psz.

Controller of Accounts (Accounts) a Crief Financias Officer TSTRANSCO, Vidyut Scucha, Hyderabad - 500 082

Statement of Capital Works in Progress

Name of the Pentioner: Name of the Region. Name of the Project: Name of the Transmission Element or Communication System

Transconsion Corporation of Telangana Limited Telangana

220 KV Srisailam - Domalapenta line

5.No.	Particulars	2019-19	2019-20	2020-21	2021-22	2022-23	2923-01
Α.	a) Opening CWIP amount as per books				****	24422-23	2025-21
	b) Amount of capital liabilities in a above	-	18.01	-	-	+	-
- 1	c) Amount of IDC included in (a) above	-	1.98	-	-		
В	 a) Addition/Adjustment in CWIP Amount during the period. 	18.01	4.26	8.13			
	b) Amount of capital liabilities in a above						-
	c) Amount of IEC included in (a) above	1.98	0.47	0.90			
C	a) Capitalisation/Transfer to Fixed Asset of CWIP	-	22.27	8.15			
	b) Amount of capital liabilities in a above			35.13			
_	r) Amount of IDC: included in (a) whove	-	2.45	0.90			
D	Clining CWIP Amount as per books	18.01					
	b) Amount of capital liabilities in a above	1000	_			-	-
	c) Amount of IDC included in (a) above	1.98	-	-			-

For M/s. Salyamarayans and Associates

Chamered Accountance No my

(CA.V.Satyanarayana)

Partner Mino.204487 FRN:0076635

UDIN: 21204487AAAADA8534

Chief Engineer/Commit & RAC TSTHANSO (Priffeners) Southa Hyderahad - 500 082,

Pinancial Advisor and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Souchia. Hyderabur – 500 riso

Financial Package upto COD

Name of the Petitioner: Name of the Region: Name of the Project:

Transcrission Corporation of Telangana Limited Telangana

Name of the Transmission Element or Communication System

220 KV Srisailam - Domalapenta line

	SHIPS		

					Change and a	to be a comment.)	
Particulars		Package as roved	Financial Pac COL		As Admitted on COD		
- A	Currency a	and Amount	Currency and	f.Amount	Currency and Amount		
1	2	3	4	.5	6		
Loan-I		21.29		21.20		21.2	
Loan-II				1777			
Loan-III							
Total Loans		21.29		21.29		21.2	
Equity-		9.12		9.12		-9.13	
Foreign							
Domestic							
Total Equity		9.12		9.12		9.1	
Debt : Equity Ratio		70:30				-	
Total Cost		30.41		30,41		30.4	
	Debt	Equity	Total				
Add cap for 2018-19		-					
Add cap for 2019-20	15.59	6.68	22.27				
Add cap for 2020-21	5.70	2.44	8.15				
Complete Com	21.29	9.12	30.41			7	
Add cap for year-1	Actual	Normative	-				
Debt							
Equity							
Total							
Add cap for year-2	Actual	Normative					
Debt	-			1			
Equity							
Total							
Total Capital Cost with add cap.							

For M/s. Saryanarayana and Associates

Chartered Accountants

(CA.V.Satyanarayana)

Partner Mino:204487 FRN:007663S

UDIN: 21204487AAAADA8534

Chaff (Petitioner) TSTHANGCO, Vioyus Isoucha. Myderabad - 500 cn2.

Controller of Acobiants (Acobiants) & Chef Financial Officer
TETRANSCO, Vioyut Souths, Hyderabad - 500 087.

PART-II FORM-II

Calculation of Return on Equity

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

220 KV Srisailam - Domalapenta line

Name of the Transmission Element or Communication System

-					LAmount	in Rs.Laidti
SL No.	Particulars	2019-20	2020-21	2021-22	2022-23	2025-24
1.	12	3	4	0.	3	
1.1	Equity as on COD/Admitted equity	6.68	6.68	9.12	9.12	9.1
1.2	Additional Capital made during the year.		2.44	- 4	- 1A	
1.3	Clsoing Equity	6.68	9.12	9.12	9.12	9.13
1.4	Average Equity	6.68	7.90	9.12	9.12	9.13
1.5	Return on Equity (%)	15,500	15.500	15.500	15.500	15.50
1.6	Tax rate for respective year(%)	34,944	34.944	34.944	34.944	34.94
1.7	Rate of Return on Equity(%)	23.826	23.826	23.826	23.826	23.82
1.8	Return on Equity*	1.52	1.68	2.17	2.17	2.1

For M/s. Satyanarayana and Associates

Chartered Accountants

1845 (CA.V.Satyanarayana)

Partner. M.no.204487 FRN:0076635

UDIN: 2120H87AAAADA85M

Ohlef Engenth Commit & RAC TSTRANSCO, Vidyus Soudha, Hyderabed - 500 082.

---Financial Advisor and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Souths, Hyderabad - 500 082.

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Petitioner: Name of the Region:

Transmission Corporation of Telangana Limited

Telangana

Name of the Project:

Name of the Transmission Element or

220KV Srisailam-Domalapenta

Communication System

					(Amount in	(Rs.Lahh)
Particulars	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Loan-1						
Gross Ioan - Opening	19	12.61	15.59	21.30	21.30	21:30
Cumulative repayments of Loans upto previous			-		2.13	4.26
Net loan - Opening		12.61	15.59	21.30	19.17	17.04
Add: Drawal(s) during the Year	12.607	2.98	5.71			
Less: Repayment (s) of Loans during the year				2.13	2.13	213
Net Ioan - Closing	12.607	15.59	21.30	19.17	17.04	14.91
Average Net Loan						
Rate of Interest on Loan on annual basis	11.00%	11.00%	11.00%	11.00%	11.00%	31.00%
Interest on loan	1.41	1.75	2.39	2.39	2.39	2.39
Loan repayment effective from (date to be indicated)		30/4/2021				

For M/s.Satyanarayana & Associates,

Chartered Accountagts

(CA.V.Satyanarayana)

1 2 1

partner

M.No.204487

FRN:0076638

UDIN: 21204487AAAADA8534

Chief Engineer Commit & FIAC TSTU (Petitionery of Soudna,

Financial Adviser and Chlot Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO Vidyut Soudha, Hyderabad - 500 682.

Calculation of Interest on Normative Loan

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project: Name of the Transmission Element or

220 KV Srisailam - Domalapenta line

Communication System

(Amount in Rs.Lakh)

				(Amount is	Rs.Lakh)
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	5	4	.5
Gross Ioan - Opening	15,59	15.59	21.29	21.29	21.29
Cumulative repayment of Normative Loan upto previous year	0.00	1.12	2.51	4.12	5.73
Net Normative loan - Opening	15.59	14.46	18.77	17.17	15.56
Increase/Decrease due to ACE/de- capitalisation during the year	-	5.70			1
Less: Repayment of Loans during the year	1.12	1.39	1.61	1.61	1.61
Net Normative Ioan - Closing	14,46	18.77	17.17	15.56	13.96
Average Normative Loan	15.02	16.62	17.97	16.36	14.76
Rate of Interest of actual Joans	11.00%	11.00%	11.00%	11.00%	11,00%
Interest on Normative loan	1.58	1,83	1.98	1.80	1.62

For M/s, Satyanarayana and Associates

Chartered Accountants

(CA.V.Satyanarayana) Partner

M.no.204487 FRN:0076636

UDIN: 21204487AAAADA8534

Child Creisioner but Souths, 13 Trustationer but Souths, 14 partitioner - 500 082.

Phrimolal Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Southa, Hyderabed - 500 8d2.

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PART-III FORM-10A

Statement of Depreciation

Name of the Petitioner:

Name of the Region

Name of the Project:

Name of the Transmission Element or

Communication System

Transmission Corporation of Telangana Limited

Telangana

220 KV Srisailam - Domalapenta line

(Autor		

					MS-E-MS-RE)	
SLNo.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
-1	2	3	4	6.	5	6
1.	Opening Capital Cost	22.27	22.27	30.41	30.41	30.4
2	Closing Capital Cost	22.27	30.41	30.41	30.41	30.4
3.	Average Capital Cost	22.27	26.34	30.41	30.41	30.4
4.	Freehold land	-			-	
5.	Rate of depreciation	5.28%	5.28%	5.28%	5.28%	5.281
-6	Depreciable value	20.04	27.37	27.37	27.37	27.3
7	Balance useful life at the beginning of the period	25	24	23	22	2
8	Remaining depreciable value	18.91	24.85	23.25	21.64	20.0
9	Depreciation (for the period)	1.12	1.39	1.61	1.61	1.6
70	Depreciation (annualised)	1.18	1.39	1.61	1.61	1.6
11	Cumulative depreciation at the end of the period	1.12	2.51	4.12	5.73	7.3
12	Less: Comulative depreciation adjustment on account of de-capitalisation	New York				
13	Net Cumulative depreciation at the end of the period	1.12	2.51	4.12	5.73	7.3

For M/s. Satyanarayana and Associates

Chartered Accountants

(CA.V.Satyanarayana)

Partner. M.no.204487 FRN:007663S

UDIN: 21204487AAAADA8534

Chief Engloser/Commi & RAC TSTRANSCHILLING Souths, Hyderabad - 500 082.

Fiduncial Advisor and Chief Centroller of Accounts (Accounts) & Chief Financial Officer TSTFIANSCO, Vidyur Southa, Hyderebad - 500 082.

Calculation of Interest on Working Capital

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

Name of the Transmission Element or

220 KV Srisailam - Domalapenta line

Communication System

_					Amount in as.	Laxn)
SL No.	Particulars	2019-20	2020-21	2021-22	2022-23	2025-24
	2	3	4	6	5	- 6
1	O & M Expenses	1.85	1.95	2.02	2.09	2.16
2	Maintenance Spares	3.33	3.51	3,63	3,76	3,89
3	Receivables	3.48	3,66	3.85	3.94	4.0
4	Total Working Capital	8,67	9,12	9,50	9.78	10.0
5	Rate of Interest	13.50%	13.50%	13,50%	13.50%	13,501
6	Interest on Working Capital	1.12	1.23	1.28	1.32	1.3

For M/s. Satyanarayana and Associates

Chartered Accountants

(CA.V.Satyanarayana)

Partner Mino.204487

FRN:007663S

UDIN: 21204487AAAADA8534

(Petitioner)

Financial Adviser and Chief Controller of Accounts (Accounts) 8 Chief Financial Officer TSTRANSCO, Vidyut Souths, Hyderabad - 500 082.



SATYANARAYANA AND ASSOCIATES

CHARTERED ACCOUNTANTS





Certificate

This is to certify that we have verified relevant records and other documents of Transmission Corporation of Telangana Limited having its registered office at 6-3-572, VIDYUT SOUDHA, KHAIRATABAD, HYDERABAD, TELANGANA-500 082 and on the basis of our verification, we certify that the Capital cost of 220 KV Chillakallu - Suryapera is detailed as under:

(Amount in Lakhs) Particolars Baild Erech Tr. Lines Sub-PLCC/Com Tutal HOG No Station Equipment ngs munication Inched including Litrid and System ed in Civil Software the Weeks Total Expenditure from 01.04.2014 to 31.03.2015 Expenditure from 388.09 388.09 40.75 01.64.2015 to 31.03.2016 392.01 102.01 Expenditure from 41.10 01.04.2016 to 31.03.2017 Expenditure rom 01.04.2017 t 31.03.2018 Expenditure rom 53.37 53.17 5.60 01.04.2018 to 31.03,2019 833.47 833,47 Total

We certify that we have verified expenditure upto 31.03.2019 as referred above on the basis of the information drawn from the audited statement of accounts of Transmission Corporation of Telangana Limited as on 31.03.2019.

Further IDC has been calculated @10.50% on an average based on the rate of paid on term loans, since the interest during the construction period includes interest on other works under construction in books of accounts.

Piace: Hyderanad Date: 22/06/2020

For M/s. Satyanarayana and Associates, Chartered Accountants

J 9912V

(CA. V. Satyanarayana)

Pariner.

M. NO. 204487 FRN: 007663S

UDI No.20204487AAAACA3639

Third Engineer/Cookins & RAO 13 TRANSCO, Vidyud Soudha, 14ydarabad - 500 053

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Summary Sheet

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

220 KV Chillakallu - Suryapeta

Name of the Transmission Element or Communication System

SI. No.	Particulars	Form No.	2019-20	2020-21	2021-22	2022-23	2023-24
1	2		3	4	6	5	6
1.1	Depreciation	10A	44.01	44.01	44.01	44.01	44.01
1.2	Interest on Loan	90	50.98	46.14	41.29	36.45	31.61
1.3	Return on Equity	8	59.57	59.57	59.57	59.57	59.57
1.4	Interest on Working Capital	- 11	3.93	3.90	3.86	3.83	3.80
1.5	O & M Expenses		26.91	27.87	28.84	29.85	30.90
	Total		185.40	181.48	177.58	173.72	169.89

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyat Soudha. Hyderabad - 500 052.

(Petitioner)

Chief Engineer/Commi & RAC TSTRANSCO, Vidyut Southa, Hyderabad - 500 062.

Normative parameters considered for tariff computations

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Name of the Project:

Telangana

Name of the Transmission Element or

220 KV Chillakallu - Suryapeta

Communication System

(Amount in Rs.Lakh)

200-11-11-11-10-10-11-1	111				(Amount in Its.La	KD)
Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	- 6	5	- 6
Base Rate of Return on Equity	5	15.500	15,500	15.500	15.500	15.500
Tax Rate	5	30.000	30,000	30.000	30.000	30,000
Effective tax rate	5	34.944	34.944	34.944	34.944	34.944
Target Availability	75	98.000	98.000	98.000	98.000	98,000
Normative O&M per km	Rs. Lakh	0.377	0.391	0.404	0.419	0.433
Normative O&M per bay	Rs. Lakh	22.510	23.300	24.120	24.960	25.840
Spares for WC as % of O&M	5	15.000	15.000	15.000	15.000	15.000
Receivables in Days for WC	Days	45	45	45	45	45
Bank Rate as on 01.04.2014	%	11.00%	11.00%	11.00%	11.00%	11.00%

A. timber of (Petitioner)

Chief Engineer Commit & RAC TEPPANSCO, Vidyut Soudha, Hydurabed - 500 062.

Francial Advisor and Crisis Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082.

ABSTRACT OF ADMITTED PARAMETERS FOR THE EXISTING TRANSMISSION ASSETS

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

Name of the Transmission Element or

Communication System

220 KV Chillakallu - Suryapeta

Changement in tables

	(Amount in lakhs)
Date of Commencement	21-Dec-16
Petition Number	
Tariff Order Date	
PARTICULARS	Capital Expenditure admitted as on 31.03.2024
Apportioned approved Cost/ Revised cost estimates, if any (with reference and date of approval)	1006.21
Freehold Land	
Leasehold Land	
Building and Other Civil Works	1,0000
Transmission Line	833,47
Sub-Station Equipments	
PLCC	f
Total:	833.47
Notional Loan	, January
Notional Equity	
Total:	
Debt Equity Ratio	70:30
Debt	583.43
Equity	250.04
Total:	833,47
Cumulative amount of depreciation	318,04
Cumulative repayment of loan	318.04
Initial Spares	

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082

(Petitioner)

Chlef Engineer Commit & FACT TSTPANSCO, Vidyut Soudha. Hydorabad - 500 082.

Statement of Capital cost

Name of the Petitioner: Name of the Region: Name of the Project: Name of the Transmission Element or Communication System Transmission Corporation of Telangana Limited Telangana

220 KV Chillakallu - Suryapeta

more		

					CALINDERA	IN PARTMENT
5.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	a) Opening Gross Block Amount as per books	833.47	833.47	833,47	833.47	833:47
	b) Amount of capital liabilities in A(a) above					
	c) Amount of IDC included in A(a) above	87.51	87.51	87.51	87.51	87.51
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above		2	-	- 4	
- 85	a) Addition in Gross Block Amount during the period				-	-
-	b) Amount of capital liabilities in B(a) above		100			
	c) Amount of IDC included in B(a) above		+1.	1.00		-
. 8	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above					
C	a) Closing Gross Block Amount as per books	833.47	833.47	833.47	833.47	833.47
	b) Amount of capital liabilities in C(a) above					
	c) Amount of IDC included in C(a) above	87.51	87.51	87.51	87.51	87.51
	 d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above 		20	180		16

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderathd - 500 082 (Petitioner)

Chief Engineer/Commi & RAC TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082.

Statement of Capital Works in Progress

Name of the Petitioner: Name of the Region Transmission Corporation of Tolangana Limited

Telangana

Name of the Project: Name of the Transmission Element or

220 KV Chillakallu - Suryapeta

Communication System

(Amount in Rs.Lakh)

	PERSONAL PROPERTY OF THE PROPE				(Amesant in	PULL ARRIV
5.No.	Perticulars	2019-20	2020-21	2021-22	2022-23	2023-24
Α.	a) Opening CWIP amount as per books	-	7.	-	T.A.	
	b) Amount of capital liabilities in a above					-
	c) Amount of IDC included in (a) above	+				
В	a) Addition/Adjustment in CWIP Amount during the period	- 5		\$6	12	
	b) Amount of capital liabilities in a above			7		
	c) Amount of IDC included in (a) above	-	-	-		-
C	a) Capitalisation/Transfer to Fixed Asset of CWIP	+	9	+		
	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above	34	- 02	-	-	
D	a) Closing CWIP Amount as per books	- 1	7		1.7	
7	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above	+56		+ 101		

Financial Advisor and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Southe, Hyderabad - 500 082 Attinhouser)

Chief Engineer/Cerrmi & FIAC TSTRANSCO, Visyur Soudna. Hyderahad - 500 082.

Financial Package upto COD

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Name of the Project:

Telangana

Name of the Transmission Element or Communication System

220 KV Chillakallu - Suryapeta

(Amount in Rs. Lakh)

					(Amount)	n Ks.Lakh)
Particulars		Package as reved	Financial Pac COI		As Admitt	ed on COD
	Currency a	nd Amount	Currency and	d Amount	Currency a	nd Amount
1	2	3	- 4.	.5	-6	2
Loan-I		704.35		383,43		583.43
Loan-II						
Loan-III	1	53.090		00000		40.03
Total Loans		704.35		583.43		583,43
Equity-		301.86		250.04		250.04
Foreign						
Domestic						
Total Equity		301.86		250.04		250.04
Debt : Equity Ratio		70:30		75.50		50000
Total Cost		1006.21		833.47	_	833,47
100000000000000000000000000000000000000	Debt	Equity	Total			
Add cap for 2013-14	-		-			
Add cap for 2014-15	12	-				
Add cap for 2015-16			-			
Add cap for 2016-17	546.07	234.03	780.10			
Add cap for 2017-18	37.36	16.01	53.37			
Add cap for 2018-19	-	-	-			
	583.43	250.04	833.47			
Add cap for year-1	Actual	Normative				
Debt						
Equity				- 1		
Total	100 000	200				
Add cap for year-2	Actual	Normative				
Debt						
Equity						
Total						
Total Capital Cost with add cap.						

Financial Adviser and Cisef Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Souths. Hyderatind - 500 082

(Petitioner)

Chief Engineer/Commit & RAC TSTRANSCO, Visiyut Soudha, Hyderabed - 500 082.

A. Winhow of

Calculation of Return on Equity

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Telangana

Name of the Region.
Name of the Project.
Name of the Transmission Element or

220 KV Chillakallu - Suryapeta

Communication System:

SL No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3.	4	6.	- 5	6
1.1	Equity as on COD/Admitted equity	250.04	250.01	250:04	250.04	250.04
1.2	Additional Capital made during the year.	-		-		4
1.3	Clsoing Equity	250.04	250.04	250.04	250.04	250.04
1.4	Average Equity	290.04	250.04	250.04	250.04	250.04
1.5	Return on Equity(%)	15.500	15.500	15.500	13.500	15.500
1.6	Tax rate for respective year(%)	34,944	34.944	34,944	34.944	34.944
ALC: UNKNOWN	Rate of Return on Equity(%)	23.626	23.826	23.826	23,826	23.820
	Return on Equity*	59.57	59.57	59.57	59.57	59.57

Filmeial Advisor and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTANSCO, Vidyut Soudha, Hyderabad - 500 082.

(Petitioner)

Chief Engineer/Commit & RAC TSTRANSCO, Vidyut Soudha, Hyderebed - 500 062,

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

220KV Chillakallu-Suryapeta

Name of the Transmission Element or Communication System

(Amount in Rs.Lakh)

				(Amount in	INS. LORENTY
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Loan-1					
Gross Ioan - Opening	583.43	.583,43	583.43	583.43	583.43
Cumulative repayments of Loans upto previous year	229.77	298.22	366.67	435.12	503.57
Net loan - Opening	353.66	285.21	216.76	148.31	79,86
Add: Drawal(s) during the Year	-		-	-	
Less: Repayment (s) of Loans during the year	68.45	68.45	68.45	68.45	68.45
Net Ioan - Closing	285.21	216.76	148.31	79.86	11.41
Average Net Loan					
Rate of Interest on Loan on annual basis	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on Ioan	34.97	27.54	20.11	12.69	5.26
Loan repayment effective from (date to be indicated)					

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Othor TSTRANSCO, Vidyut Souths. Hyderabad - 600 082. (Petitioner)

Chief Engineer/Commi & RAO TSTRAVSCO, Vidyot Soudha, Hydorabod - 500 062,

Calculation of Interest on Normative Loan

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

Name of the Transmission Element or

220 KV Chillakallu - Suryapeta

Communication System

				(Amount it	Hs.Laxn)
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	5	4	5
Gross loan - Opening	583.43	583.43	583.43	583.43	583.43
Cumulative repayment of Normative Loan upto previous year	98.00	142.01	186.02	230.02	274.03
Net Normative Joan - Opening	485.43	441.42	397.41	353.40	309.40
Increase/Decrease due to ACE/de- capitalisation during the year	- 2				14
Less: Repayment of Loans during the year	44,01	44.01	44.01	44.01	44.01
Net Normative loan - Closing	441.42	397.41	353.40	309.40	265.39
Average Normative Loan	463.42	419.42	375.41	331.40	287,39
Rate of Interest of actual loans	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on Normative loan	50.98	46.14	41.29	36.45	31.61

Financial Adviser and Crief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082.

(Petitioner)

Chief Engineer/Commil & RAC TSTRANSCO, Vidyut Soudha, Nydorabad - 500 0s2.

PART-III FORM-10A

Statement of Depreciation

Name of the Petitioner: Name of the Region: Name of the Project:

Name of the Transmission Element or

Communication System

Transmission Corporation of Telangana Limited

Telangana

220 KV Chillakallu - Suryapeta

(Amount in Rs.Lakh)

					(Amount in	Ha-Lakh)
SLNo.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	6.	- 5	6
1	Opening Capital Cost	833.47	833.47	833.47	833.47	833.47
2	Closing Capital Cost	833.47	833.47	833.47	833.47	833.47
. 3	Average Capital Cost	833.47	833.47	833.47	833.47	833.42
4	Freehold land	-	-	-		-
- 5	Rate of depreciation	5.28%	5.28%	5.28%	5.28%	5.28%
- 6	Depreciable value	750.12	750.12	750.12	750.12	750.12
7	Balance useful life at the beginning of the period	22	21	20	19	18
8	Remaining depreciable value	608.11	564.11	520.10	476.09	432.08
9	Depreciation (for the period)	44.01	44.01	44.01	44.01	44.01
10	Depreciation (annualised)	44.01	44.01	44.03	44.01	44.01
.11	Cumulative depreciation at the end of the period	142.01	186.02	230.02	274.03	318.04
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	040	15	14	82	- 2
13	Net Cumulative depreciation at the end of the period	142.01	186.02	230.02	274.03	318.04

Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Souths, Hyderebed - 500 082.

(Petitioner)

Chlaf Enginesi / Commi & RAC TG (HANDCO, Voyut Soudha. Mydembed - 500 082.

Calculation of Interest on Working Capital

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

220 KV Chillakallu - Suryapeta

Name of the Transmission Element or Communication System

				Amount in Rs.	Lakh)
	2019-20	2020-21	2021-22	2022-23	2023-24
1	3	4	6.	5	. 6
П	2.24	2.32	2.40	2.49	2.

SI. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	6	5	n
1	O & M Expenses	2.24	2,32	2.40	2.49	2.57
2	Maintenance Spares	4.04	4.18	4.33	4.48	4.63
3	Receivables	22,86	22.37	21.89	21.42	20.95
4	Total Working Capital	29.14	28.88	28.62	28.38	28.16
5	Rate of Interest	13.50%	13.50%	13.50%	13.50%	13.50%
6	Interest on Working Capital	3.93	3.90	3.86	3.83	3.80

Findincial Adviser and Cruel Controller of Accounts (Accounts) a Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabed - 500 082

(Petitioner)

Civer Engineer/Commilia RAC TSTRUNSCO, Vidyut Soudha, Hydersland - 500 082.

SATYANARAYANA AND ASSOCIATES

CHARTERED ACCOUNTANTS





Certificate

This is to certify that we have verified relevant records and other documents of Transmission Corporation of Telangana Limited having its registered office at 6-3-572, VIDYUT SOUDHA, KHAIRATABAD, HYDERABAD, TELANGANA-500 082 and on the basis of our verification, we certify that the Capital cost of 220KV Chillakallu - Pulichintala is detailed as under:

							(Amount in	Lakhs)
S. No.	Particulars	Free hold Land	Buildings and civil works	Tr. Lines	Sub- station	PLCC/ Commu nication system	IT equipment including Software	Total	IDC Inclu- in the Total
1	Expenditure from 01.04.2014 to 31.03.2015			904.25				904.25	94,95
2	Expenditure from 01,04.2015 to 31.03.2016			1771.01				1771.01	185.96
3	Expenditure from 01.04.2016 to 31.03.2017			518.74				518.74	54,47
4	Expenditure from 01.04.2017 to 31.03.2018			258.44				258,44	27.14
5	Expenditure from 01.04.2018 to 31.03.2019			520.49				520,49	54.64
6	Expenditure from 01.04.2019 to 31.03.2020			107.59				107,59	11.83
	Total			4080.52				4080.52	428,99

We certify that we have verified expenditure upto 31.03.2020 as referred above on the basis of the information drawn from the audited and provisional statement of accounts of Transmission Corporation of Telangana Limited.

Further IDC has been calculated @11.00% for FY 2019-20 and @10.50% for FY 2014-15 to 2018-19 on an average on the rate of interest paid on term loans, since the interest during the construction period includes interest on other works under construction in books of accounts.

Place: Hyderabad Date:18.02.2021

Att how of Chief Engineer/Commi & RAC TETFORISCO, Vidyur Soudha, Hydersbad - 500 082.

For M/s.Satyanarayana and Associates. Chartered Accountants

> 142 V (CA.V.Satyanarayana)

Partner. M.No.204487 FRN: 007663S

UDI No.21204487AAAADB6918

133

4YD-500 025

Summary Sheet

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

CYD-500 029

Name of the Project:

220 KV Chillakallu - Pulichintala

Name of the Transmission Element or Communication System

(Amount in Rs.Lakh)

				(Amount in Rallakin)						
SL No.	Particulars	Form No.	2019-20	2020-21	2021-22	2022-23	2023-24			
1	2	20000	3	- 4	6	5	6			
1.1	Depreciation	10A	212.61	215.45	215.45	215.45	215.45			
1.2	Interest on Loan	9E	290.97	271.57	247.87	224.17	200.47			
1.3	Return on Equity	8	287.82	291.66	291.66	291.66	291.66			
1.4	Interest on Working Capital	11	15.40	15.25	14.92	14.60	14.27			
1.5	O & M Expenses		40.87	42.34	43.79	45.37	46.93			
	Total		847.66	836.28	813.70	791.25	768.78			

For M/s.Satyanarayana & Associates,

Chartered Accountants

(CA.V.Satyanarayana)

partner M.No.204487 FRN:0076638

UDIN: 21204487AAAADB6918

Chlof Engineer/Commits RAO TSTRAY (Petitioner) I Scoutha. Hyderabad 500 062.

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vigyut Soudha, Hyderabad - 500 082

Normative parameters considered for tariff computations

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

#1000 mon

Name of the Transmission Element or

220 KV Chillakallu - Pulichintala

Communication System

(Amount in Rs.Lakh)

Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	6	5	6
Base Rate of Return on Equity	5	15,500	15,500	15.500	15.500	15.500
Tax Rate	3.	30,000	30.000	30.000	30.000	30.000
Effective tax rate	2	34.944	34.944	34.944	34.944	34,944
Target Availability	5	98,000	98.000	98,000	98.000	98.000
Normative O&M per km	Rs. Lakh	0.377	0.391	0.404	0.419	0.433
Normative O&M per bay	Rs. Lakh	22,510	23.300	24.120	24.960	25.840
Spares for WC as % of O&M	%	15,000	15,000	15,000	15.000	15.000
Receivables in Days for WC	Days	45	45	45	45	45
Bank Rate as on 01.04.2014	5	11.00%	11.00%	11.00%	11.00%	11.00%

For M/s.Satyanarayana & Associates,

Chartered Accountants

(CA.V.Satyanarayana)

partner M.No.204487 FRN:0076638

UDIN: 21204487AAAADB6918

(Petitioner)

(Petitioner)

The second second

Financial Adviser and Chief Chief Financial Oncer Chief Financial Oncer TSTRANSCO, Vidyur Souths, Hydersbad - 500 082

HYD-500 029

ABSTRACT OF ADMITTED PARAMETERS FOR THE EXISTING TRANSMISSION ASSETS

Name of the Petitioner:

Transmission Corporation of Telangana

Limited Telangana

Name of the Region: Name of the Project:

Name of the Transmission Element or

220 KV Chillakallu - Pulichintala

Communication System

(Amount in lakhs)
5-Dec-18
2
Capital Expenditure admitted as on 31.03.2024
4,244.35
4,080.52
4,080.52
4.565555
70:30
2856.37
1224.16
4080.52
1141.66
1141.66
25 27 //2

for M/s. Satyanarayana and Associates

Chartered Accountants

142V

(CA.V.Satyanarayana)

Partner M.No.204487 FRN:007663S

UDIN: 21204487AAAADB6918

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134

Financial Advicer usor Uniel Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Seudha, Hyderabad - 500 082.

Statement of Capital cost

Name of the Petitioner:

Name of the Region: Name of the Project.

Name of the Transmission Dement or

Communication System

Transmission Corporation of Telangana Limited

Telangana

220 KV Chillakallu - Pulichintala

			(Albert	

					Committee	PERSONAL PROPERTY.
5.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
۸	a) Opening Gross Block Amount as per books	3,972.93	4,080.52	4,080.52	-L080.52	4,080.52
	b) Amount of capital liabilities in A(a) above			1		
	c) Amount of IDC included in A(a) above	417.16	428.99	428.99	428.99	428.99
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(s) above	S	-	140	2/	(4)
В	a) Addition in Gross Illack Amount during the period	107.59	0.00	0.00	0.00	0.00
	b) Amount of capital liabilities in B(a) above	7.110.00	- 200			- 2010
	c) Amount of IDC included in B(a) above	11.84	0.00	0.00	9.00	0.00
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	(47)			-	-
C	a) Closing Gross Block Amount as per books	4080.52	4080.52	4080.32	4080.52	4080.52
	b) Amount of capital liabilities in C(a) above					
	c) Amount of IDC included in C(a) above	428.99	428.99	428.99	428.99	428.99
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above				= =	- 6

For M/s. Satyanarayana and Associates

Chartered Accountants, 1 2 y

(CA.V.Satyanarayana)

Partner M.no.204487 FRN:0076635

UDIN: 21204487AAAADB6918

(Petitioner)

Chief Engineer/Commit & RAC TSTRANSCO, Vidyut Soudha, Hyderabad - 500 982,

Controller of Accounts (Accounts) A Chief Financial Officer TSTRANSCO, Vidyur Soudha. Hyderabad - 500 682.

WD 500 029

Statement of Capital Works in Progress

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region: Name of the Project

Telangana

Name of the Transmission Element or

220 KV Chillakallu - Pulichintala

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					-91	

			t for Ro.Lahh			
5.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	a) Opening CWIP amount as per books	0.00	0.00	0.00	0.00	0.00
	b) Amount of capital liabilities in a above	0.820		V	100	150
	c) Amount of IDC included in (a) above	0.00	0.00	0.00	0.00	0.00
н	a) Addition/Adjustment in CWIP Amount during the period	107.59	0.00	0.00	0.00	0.00
	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above	.11.54	0.00	0.00	0.00	0.00
C	a) Capitalisation/Transfer to Fixed Asset of CWIP	107.59	0.00	0.00	0.00	0.00
	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above	11.64	0.00	0.00	0.00	0.00
D.	a) Closing CWIP Amount as per books	-	-			
71117	b) Amount of capital liabilities in a above		100		1	
	c) Amount of IDC included in (a) above	17411		+		

For M/s. Satyanarayana and Associates

Chartered Accountants

1421 (CA.V.Satyanarayana)

Partner M.no.204487

FRN:0076635 UDIN: 21204487AAAAD86918 who (Petitioner)

Chief Engineer/Commit & PAC TSTRANSCO, Vidyot Souchs, Hyderabad - 500 082.

Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082.

Financial Package upto COD

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project: Name of the Transmission Element or

220 KV Chillakallu - Pulichintala

Communication System

	_				(Amount	in Rs.Lakh)	
Particulars		Package as eoved	Financial Pac COI		As Admitted on COD		
	Currency a	and Amount	Currency and	d Amount	Currency and Amount		
- 1	2	- 3	40	5	6	7.	
Loan-I		2971.04		2856.37		2856.37	
Loan-II							
Loan-III		2590,000		430000000		1000000000	
Total Loans		2971.04		2856.37		2856.37	
Equity-		1273.30		1224.16		1224.16	
Foreign							
Domestic							
Total Equity		1273.30		1224.16		1224.16	
Debt : Equity Ratio		70:30		1000001450		0.000.00	
Total Cost		4244.35		4080.52		4080,52	
	Debt	Equity	Total			-	
Add cap for 2013-14	-	-				F	
Add cap for 2014-15			-				
Add cap for 2015-16	-	- 2					
Add cap for 2017-18			-				
Add cap for 2018-19	2781.05	1191.88	3972.93				
Add cap for 2019-20	75.31	32.28	107.59				
	2856.37	1224,16	4080.52				
Add cap for year-1	Actual	Normative					
Debt							
Equity							
Total							
Add cap for year-2	Actual	Normative					
Debt							
Equity							
Total							
Total Capital Cost with add cap.				10			

For M/s. Satyanarayana and Associates

Chartered Accountants 1421

(CA.V.Satyanarayana)

Partner M.no.204487

FRN:0076635 UDIN: 21204487AAAADB6918 Winhow (Petitioner)

Objet Engineer/Commit & RAO TETHANISCO, Vietus Soudhis, Myderabad - 500 082.

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Firancial Officer TSTRANSCO, Vidyut Soudha, Hyderabaci - 500 082 157

Calculation of Return on Equity

Name of the Petitioner: Name of the Region: Name of the Project:

Transmission Corporation of Telangana Limited. Telangana

Name of the Transmission Element or

220 KV Chillakallu - Pulichintala

Communication System

SL No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	6	3	6.
1.1	Equity as on COD/ Admitted equity	1191.88	1224.16	1224.16	1224.16	1224.16
1.2	Additional Capital made during the year.	32.28	-			-
1.3	Clsoing Equity	1224.16	1224.16	1224.16	1224.16	1224.16
3.4	Average Equity	1208.02	1224.16	1224.10	1224.16	1,224,16
1.5	Return on Equity(%)	15.500	15.500	15.500	15.500	15,500
1.6	Tax rate for respective year(%)	34,944	34.944	34.944	34.944	34,944
1.7	Rate of Return on Equity(%)	23.826	23.626	23.826	23.826	23.826
1.8	Return on Equity*	287.82	291.66	291.66	291.66	291.66

For M/s. Satyanarayana and Associates

Chartered Accountants

1021 (CA.V.Satyanarayana)

Partner M.no.204487 FRN:0076635

UDIN: 21204487AAAAD86918

(Petitioner)

Chief Englisen/Commi & RAC TSTHATESCO, Vidyus Boodhis, Myderabad - 500 682,

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Souths, Hyderabad - 500 082

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project: Name of the Transmission Element or

220KV Chillakallu-Pulichintala

Communication System

(Amount in Rs.Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Loan-1			-	-	
Gross lean - Opening	2,781.04	2,856.35	2,856.35	2,856.35	2,856.35
Cumulative repayments of Loans upto previous year	1,089.86	1,424.72	1,759.58	2,094.44	2,429.30
Net Ioan - Opening	1,691.18	1,431.63	1,096.77	761.91	427.05
Add: Drawal(s) during the Year	75.31				
Less: Repayment (s) of Loans during the year	334.86	334.86	334.86	334.86	334.86
Net Ioan - Closing	1,431.63	1,096.77	761.91	427.05	92.19
Average Net Loan					
Rate of Interest on Loan on annual basis	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on Joan	175.00	138.67	102.34	66.01	29.68
Loan repayment effective from (date to be indicated)					

For M/s.Satyanarayana & Associates,

Chartered Accountants

(CA.V.Satyanarayana)

partner

M.No.204487

FRN:0076638

UDIN: 21204487AAAADB6918

(Petitioner)

Chief Engineer/Commt & PAC TSTRANSCO, Vidyut Sougha, Hyderabed - 500 082,

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Southe, Hyderabad - 500 082.

Calculation of Interest on Normative Loan

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Telangana

Name of the Region: Name of the Project:

Name of the Transmission Element or

220 KV Chillakallu - Pulichintala

Communication System

(Amount in Rs.Lakh)

		(Amount in Kilakn)				
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24	
1	2	3	5	4	5	
Gross loan - Opening	2781.05	2856.37	2856.37	2856.37	2856.37	
Cumulative repayment of Normative Loan upto previous year	67.24	279.85	495.30	710.76	926.21	
Net Normative loan - Opening	2713.81	2576.51	2361.06	2145.61	1930.16	
Increase/Decrease due to ACE/de-capitalisation during the year	75,31	-				
Less: Repayment of Loans during the year	212.61	215.45	215.45	215.45	215.45	
Net Normative loan - Closing	2576.51	2361.06	2145.61	1930.16	1714.71	
Average Normative Loan	2645.16	2468.79	2253.34	2037.88	1822.43	
Rate of Interest of actual loans	11.00%	.11.00%	11.00%	11.00%	11.00%	
Interest on Normative Joan	290.97	271.57	247.87	224.17	200.47	

For M/s. Satyanarayana and Associates

Chartered Accountants

14 2 V (CA.V.Satyanarayana)

Partner M.no.204487 FRN:007663S

UDIN: 21204487AAAADB6918

Cotal Engineer/Commi & BAO

TSTRAND (Petitioner) Souths, Hyderabad - 800 062.

Finan al Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Southa, Hyderabad - 500 082.

PART-III FORM-10A

(Amount in Ballabib)

Statement of Depreciation

Name of the Petitioner: Name of the Region: Name of the Project: Name of the Transmission Element or

Transmission Corporation of Telangana Limited Telangana

220 KV Chillakallu - Pulichintala

Communication System

					Amount in Rs.	akh)	
Sl.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24	
1	2	3.	4	6	5	6	
1.	Opening Capital Cost	3972.93	4080.52	4080.52	4080.52	4380.52	
2	Closing Capital Cost	4080.52	4090.52	4080.52	4080.52	4080.52	
3.	Average Capital Cost	4026.73		4080.52	4080.52	4080.52	
4	Freehold land	Ce.				-	
5	Rate of depreciation	5.28%	5.28%	5.28%	5.28%	5.28%	
6	Depreciable value	3672:47	3672.47	3672.47	3672.47	3672.47	
2	Balance useful life at the beginning of the period	24	23	22	21	20	
8	Remaining depreciable value	3392.62	3177.17	2961.71	2746.26	2530.81	
9	Depreciation (for the period)	212,61	215.45	215,45	215.45	215.45	
10	Depreciation (annualised)	212.61	215.45	215,45	215,45	215.45	
:11	Cumulative depreciation at the end of the period	279.85	495.30	710,76	926.21	1141.66	
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	-	+		_		
13	Net Cumulative depreciation at the end of the period	279.85	495.30	710,76	926.21	31141.66	

For M/s. Satyanarayana and Associates

Chartered Accountants V2 49 C

(CA.V.Satyanarayana)

Partner M.no.204487 FRNJ007663S

UDIN: 2120487AAAAD86918

Charlengtham Account & RAC To MANGOO, Velyer Soudha. Hydersbod - 800 082.

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soucha, Hyderabad - 500 082.

Calculation of Interest on Working Capital

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

Name of the Transmission Element or

220 KV Chillakallu - Pulichintala

Communication System

249			y		(Amount in Rs.Lakh)		
SL No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24	
1	2	3	4	- 6.	5	6	
1	O & M Expenses	3.41	3.53	3.65	3.78	3.91	
2	Maintenance Spares	6.13	6.35	6.57	6.80	7.04	
3	Receivables	104.51	103.11	100.32	97.55	94.78	
4	Total Working Capital	114.05	112.95	110.54	108,14	105.73	
.5	Rate of Interest	13,50%	13.50%	13.50%	13.50%	13.50%	
6	Interest on Working Capital	15.40	15.25	14.92	14.60	14.27	

For M/s. Satyanarayana and Associates

Chartered Accountants

(CA.V.Satyanarayana)

Partner

M.no.204487 FRN:0076635

UDIN: 21204487AAAAD86918

(Petitioner)

Chief Engineer/Opinint & RAC TSTRANDOO, Virtyot Southa, Hyderahad - 500 082.

Financial Advisair and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyul Soudha. Hyderabad - 500 082.

SATYANARAYANA AND ASSOCIATES

CHARTERED ACCOUNTANTS





Certificate

This is to certify that we have verified relevant records and other documents of Transmission Corporation of Telangana Limited having its registered office at 6-3-572, VIDYUT SOUDHA, KHAIRATABAD, HYDERABAD, TELANGANA-500 082 and on the basis of our verification, we certify that the Capital cost of 132 KV A.P.Carbides - Alampur - II is detailed as under:

	The second second	-	0.0000000000000000000000000000000000000	I TOTAL CONTRACTOR		507.157	. (Amount in	Lakbs)
10	Particulars	Fresh ole Land	Buildi ngs and Civil Works	Tr. Lines	Sub- Station	PLCC/Com munication System	Equipment including Software	Total	IDC Included ed in the Total
1	1 spenditure from 01.04/2013 to 1.03/2014			121.27				121.57	(2.7)
2	Expenditure from 01.04.2014 to 21.03.2015			35.66				56.66	5.15
3	Expenditure from 91.04,2015 to 31.03,2016			2.12				2.12	0.22
+	Expenditure from 01.04,2016 to -1.03,2017		J.						
*	Expenditure form 01.04.2017 to 1.03.2018								
5	Expenditure from 01.04/2018 to 1.03,2019								
	Total			180.33				180.35	19.54

We certify that we have verified expenditure upto 31.03.2019 as referred above on the basis of the information drawn from the audited statement of accounts of Transmission Corporation of Telangana Limited as on 31.03.2019.

Further IDC has been calculated @10.50% on an average based on the rate of paid on term loans, since the interest during the construction period includes interest on other works under construction in books of accounts.

Place: Hyderabad Date: 22/06/2000

> Chief Enginear/Commi & RAC TSTRANSICO, Vidyat Saudha, Myderathild - 500 082.

ti home

For M/s. Satyanarayana and Associates... Chartered Accountants

> (CA. V. Satyanarayana) Partner.

M. NO. 204487 FRN: 007663S

UDI No. 20204487AAAACD2708

Summary Sheet

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

132 KV A.P.Carbides - Alampur - II

Name of the Transmission Element or Communication System

		- 12				(Amount in Rs.Lakh)		
SI. No.	Particulars	Form No.	2019-20	2020-21	2021-22	2022-23	2023-24	
1	2		3	4	6	5	.6	
1.1	Depreciation	10A	9.52	9.52	9.52	9.52	9.52	
1.2	Interest on Loan	9E	8.59	7.54	6.50	5.45	4.40	
1.3	Return on Equity	8	12.89	12.89	12.89	12.89	12.89	
1.4	Interest on Working Capital	11	1.33	1,34	1.35	1.36	1.37	
1.5	O & M Expenses	_ 28.37	16.38	16.95	17.55	18.16	18.81	
	Total		48.71	48.25	47.81	47.39	47.00	

H. Winhow of (Petitioner) Phile Engineer/Commt & RAC To 1985CQ, Vidyus Beadhs, Mydurshad - 600 082.

Financial Advisor and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082.

Normative parameters considered for tariff computations

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

132 KV A.P.Carbides - Alampur - II

Communication System

Name of the Transmission Element or

(Amount in Rs.Lakh)

					(Amount in iss.	Lastrij
Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	6	5	6
Base Rate of Return on Equity	%	15,500	15.500	15,500	15.500	15.500
Tax Hate	74	30,000	30.000	30.000	30.000	30,000
Effective tax rate	- %	34.944	34.944	34.944	34.944	34.944
Target Availability	76	98.000	98.000	98,000	98.000	98.000
Normative O&M per km	Rs. Lakh	0.252	0.260	0.270	0.279	0.289
Normative O&M per bay	Rs. Lakh	16.080	16.640	17.230	17.830	18,460
Spares for WC as % of O&M	%	15.000	15.000	15,000	15.000	15.000
Receivables in Days for WC	Days	45	45	45	45	45
Bank Rate as on 01.04.2014	2.	11.00%	11,00%	11.00%	11.00%	11.00%

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderahad - 600 082. (Petitioner)

Chief Engineer/Commi & RAC TETRANSCO, Vidyut Southa, Myderabad - 500 082.

ABSTRACT OF ADMITTED PARAMETERS FOR THE EXISTING TRANSMISSION ASSETS

Transmission Corporation of Telangana Name of the Petitioner:

Limited

Name of the Region: Telangana Name of the Project:

Name of the Transmission Element or 132 KV A.P.Carbides - Alampur - II

Communication System

	(Amount in lakhs)
Date of Commencement	6-Sep-14
Petition Number	
Tariff Order Date	The second secon
PARTICULARS	Capital Expenditure admitted as on 31.03.2024
Apportioned approved Cost/ Revised cost estimates, if any (with reference and date of approval)	160.67
Freehold Land	
Leasebold Land	
Building and Other Civil Works	
Transmission Line	180.35
Sub-Station Equipments	
PLCC	
Tetal:	180.35
Notional Loan	11,388.0
Notional Equity	
Total :	
Debt Equity Ratio	70:30
Debt	126.24
Equity	54.10
Total:	180.35
Cumulative amount of depreciation	90.98
Cumulative repayment of loan	90.98
Initial Spares	1177

(Petitioner)
Child Engineer/Commit & RAO
18THANIESO, Vidyut Soudha, Hyderabud - 500 082.

Financial Adviser and Chief

Statement of Capital cost

Name of the Petitioner. Name of the Region: Name of the Project: Name of the Transmission Element or Communication System Transmission Corporation of Telangana Limited Telangana

132 KV A.P.Carbides - Alampur - II

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					American and the pro-	e ac ind
5.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	a) Opening Gross Block Amount as per books	180.35	180.35	180.35	180.35	380.35
	b) Amount of capital liabilities in A(a) above					
	c) Amount of IDC: included in A(a) above	18.94	18.94	18.94	18.94	18.94
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	-	- 2	- 0	2	1
B.	a) Addition in Gross Block Amount during the period	- 40	- 4	-	-	-
	b) Amount of capital liabilities in 8(a) above					
	c) Amount of IDC included in B(a) above					+ 1
	d) Amount of IEDC (excluding IDC, FC, FERV & Hodging cost) included in B(a) above	- 5	140	- 1		
C	a) Closing Gross Block Amount as per books	180.35	180.35	180.35	180.35	180.35
	b) Amount of capital liabilities in C(a) above	200		10000	2/5/5/04	375.7
	c) Amount of IDC included in C(a) above	18.94	18.94	18.94	18.94	18.94
	d) Amount of IEDC (excluding IDC, PC, FERV & Hedging cost) included in II(a) above	-	10400	-	-	

Financial Adviser and Cract Controller of Accounts (Accounts) & Chief Financial Officer TSTHANSCO, Vidyut Soudha. Hydoratisid - 500 082. At C. And (Petitioner)

Chief Engineer/Commt & PAC TE 770-1000, Vidyut Southe, - MyAr. 4-11-500 082.

Statement of Capital Works in Progress

Name of the Petitioner: Name of the Region:

Transmission Corporation of Telangana Limited

Telangana

Name of the Project: Name of the Transmission Element or Communication System

132 KV A.P.Carbides - Alampur - II

					(Amount in R	n.Lakh)
S.No.	Particulars	2019-20	2920-21	2021-22	2022-23	2023-24
· A	a) Opening CWIP amount as per books	-		-	-	-
	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above		1747	-	-	- 30
n	a) Addition/Adjustment in CWIP Amount during the period	J 8				-
	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above				-	
0	a) Capitalisation/Transfer to Food Asset of CWIP			-	-	-
	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above				-	
D	a) Closing CWIP Amount as per books	-		-	- 0	- 7
	b) Amount of capital liabilities in a above					
1	c) Amount of IDC included in (a) above		7.0			-

Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082

(Petitioner)

Chief Engineer/Corrent & PAC 18173ANISCO, Vidyot Soughe, Hyderabed - 500 062.

Financial Package upto COD

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project: Name of the Transmission Element or

132 KV A.P.Carbides - Alampur - II

Communication System

(Amount in Rs.Lakh)

					(Amount)	in Ks.Lakži)
Particulars		Package as roved	Financial Package as on COD		As Admitted on COD	
	Currency a	and Amount	Currency and	Amount	Currency and Amount	
1	2	- 3	4	. 5	6	7
Loan-I		112.47		126.24		126.24
Loan-II						
Loan-III		V 35 (46)		3000/01		0.000
Total Loans		112.47		126.24		126.24
Equity-		48:20		54.10		54.10
Foreign						
Domestic						
Total Equity		48.20		54.10		54.10
Debt : Equity Ratio		70:30		No.		
Total Cost		160.67		180,35		180,35
	Debt	Equity	Total			
Add cap for 2013-14		+	-			1
Add cap for 2014-15	124.76	53.47	178.23			
Add cap for 2015-16	1.48	0.64	2.12			
Add cap for 2017-18	-	-	-			
Add cap for 2018-19		-	S 200-			
	126.24	54.10	180,35			
Add cap for year-1	Actual	Normative				
Debt						
Equity						
Total	Lovernow's	Contract of the Contract of				
Add cap for year-2	Actual	Normative				
Debt						
Equity						
Total						
Total Capital Cost with add cap.						

Francial Adviser and Chief Centroller of Accounts (Accounts) & Chief Financial Officer TSTHANSCO, Vidyut Soudha, Myderabad - 500 082.

(Petitioner)

Chief Engineer/Commi & RAC 78TRANSCO, Vidyut Southa, Myderubad - 600 082.

Calculation of Return on Equity

Name of the Petitioner: Name of the Region: Name of the Project:

Transmission Corporation of Telangana Limited Telangana

Name of the Transmission Element or

132 KV A.P.Carbides - Alampur - II

Communication System

	processor and the second				(Amount in Ru Lakh)		
SI, No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24	
1.	2	. 3	4	5	6	7	
1.1	Equity as on COD/ Admitted equity	54.10	54.10	54.10	54.10	54.10	
1.2	Additional Capital made during the year.		4	-	-	F.	
1.3	Claoting Equity	54.10	54,10	54.10	34.10	34.10	
1.4	Average Equity	54.10	54.10	54.10	54.10	54.10	
1.5	Return on Equity(%)	15.500	15.500	15.300	15,500	15.500	
1.6	Tax rate for respective year(%)	34.944	34.944	34.944	34.944	34.944	
1.7	Rate of Return on Equity(%)	23.826	23.826	23.826	23.826	23.826	
1.8	Return on Equity*	12.89	12.89	12.89	12.89	12.89	

Financial Adviser and Chief Gontroller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082.

(Petitioner)

Chief Engineer/Commi & RAC TETRANSCO, Vidyut Souths. Hyderahad - 500 082.

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

Name of the Transmission Element or Communication System

132KV A.P.Carbides-Alampur-II

				(Amount in	Rs.Lakh)
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Loan-1					
Gross toan - Opening	126.24	126.24	126.24	126.24	126.24
Cumulative repayments of Loans upto previous year	38.92	51.54	64.16	76.78	89.40
Net loan - Opening	87.32	74.70	62.08	49,46	36.84
Add: Drawal(s) during the Year		-	-	-	
Less: Repayment (s) of Loans during the year	12.62	12.62	12.62	12.62	12.62
Net loan - Closing	74.70	62.08	49.46	36.84	24.22
Average Net Loan					
Rate of Interest on Loan on annual basis	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on Joan	8.97	7.58	6.19	4.80	3.42
Loan repayment effective from (date to be indicated)					

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082.

Tich (Petitioner)

1 or 1 or 1 or 1 3' 0. Vitrat banks. Noternal - 500 082.

Calculation of Interest on Normative Loan

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

132 KV A.P.Carbides - Alampur - II

Communication System

Name of the Transmission Element or

out in Rs.Lakh)

Search responsibilities and the search search	(Ameunt	Amount in Rs.Lakh)			
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	5	4	5
Gross Ioan - Opening	126.24	126.24	126.24	126.24	126.24
Cumulative repayment of Normative Loan upto previous year	43.37	52.89	62.41	71.94	81.46
Net Normative Ioan - Opening	82.87	73.35	63.83	54.31	44.78
Increase/Decrease due to ACE/de- capitalisation during the year	- 3	104			
Less: Repayment of Loans during the year	9.52	9.52	9.52	9.52	9.52
Net Normative Ioan - Closing	73.35	63.83	54.31	44.78	35.26
Average Normative Loan	78.11	68,59	59.07	49.54	40.02
Rate of Interest of actual loans	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on Normative loan	8.59	7.54	6.50	5.45	4.40

Controller of Accounts (Accounts) a Chief Financial Officer TSTRANSOO, Vidyut Soudha, Hyderabad - 500 082.

Chief Engineer/Commi & RAC 1611ANBCO; Vidyut Southa, Hyderabaid - 500 082.

PART-III FORM-10A

Statement of Depreciation

Name of the Petitioner: Name of the Region: Name of the Project:

Name of the Transmission Element or Communication System

Transmission Corporation of Telangana Limited Telangana

132 KV A.P.Carbides - Alampur - II

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					(Amount in R	s.Lakto
St.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	4	5	6	ñ	7
1	Opening Capital Cost	180.35	180.35	180.35	180.35	180.35
2.	Closing Capital Cost	180.35	180.35	180.35	180.35	180.33
3.	Average Capital Cost	180.35	180.35	180.35	180,35	180.35
4	Freehold land	-	-	-	- 4	-
- 5	Rate of depreciation	5.28%	5.28%	5.28%	5.28%	5.28%
6	Depreciable value	162.31	162.31	162.31	162.31	162.31
7	Balance useful life at the beginning of the period	20	19	18	17	16
8	Remaining depreciable value	109.42	99.90	90.38	FK1.83	71.33
9	Depreciation (for the period)	9.52	9.52	9.52	9.52	9.52
10	Depreciation (annualised)	9.52	9.52	9.52	9.52	9.52
11	Cumulative depreciation at the end of the period	52.89	62.41	71.94	81.46	90,98
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	2.0.200	-		-	
13	Not Cumulative depreciation at the end of the period	52.89	62.41	71.94	81.46	90.90

Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Souths, Hyderebad - 500 082.

A Whomen

Chief Engineer/Comm\'& RAC TSTRANSCO, Vidyut Seudha. Hyderabad - 500 882.

Calculation of Interest on Working Capital

Name of the Petitioner: Name of the Region: Transmission Corporation of Telangana Limited

Telangana

Name of the Project:

Name of the Transmission Element or

132 KV A.P.Carbides - Alampur - II

Communication System

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Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
2	3	4	- 0	5.	6
O & M Expenses	1.37	1.41	1.46	1.51	1,57
All all reliable from the contract of the cont	2.46	2.54	2.63	2.72	2.82
Coloration and the colorate and the colo	6.01	5.95	5.90	5.84	5.80
CONTRACTOR OF THE PARTY OF THE	9.83	9,91	9.99	10.08	10.18
AND DESCRIPTION OF THE PARTY OF	13.50%	13.50%	13.50%	13.50%	13,50%
	1.33	1.34	1.35	1.36	1.37
	Particulars 2 O & M Expenses Maintenance Spares Receivables Total Working Capital Rate of Interest Interest on Working Capital	2 3 O & M Expenses 1.37 Maintenance Spares 2.46 Receivables 6.01 Total Working Capital 9.83 Rate of Interest 13.50%	2 3 4 O & M Expenses 1.37 1.41 Maintenance Spares 2.46 2.54 Receivables 6.01 5.93 Total Working Capital 9.83 9.91 Rate of Interest 13.50% 13.50%	2 3 4 6 O & M Expenses 1.37 1.41 1.46 Maintenance Spares 2.46 2.54 2.63 Receivables 6.01 5.95 3.90 Total Working Capital 9.83 9.91 9.99 Rate of Interest 13.50% 13.50% 13.50%	2 3 4 6 5 O & M Expenses 1.37 1.41 1.46 1.51 Maintenance Spares 2.46 2.54 2.63 2.72 Receivables 6.01 5.95 5.90 5.84 Total Working Capital 9.83 9.91 9.99 10.08 Rate of Interest 13.50% 13.50% 13.50%

(Petitioner)

TO 1.4 person betwee 6.74-0 TO 1.4 Policy Volyus Bendra. 10 surchard 560 662.

SATYANARAYANA AND ASSOCIATES

CHARTERED ACCOUNTANTS





Certificate

This is to certify that we have verified relevant records and other documents of Transmission Corporation of Telangana Limited having its registered office at 6-3-572, VIDYUT SOUDHA, KHAIRATABAD, HYDERABAD, TELANGANA-500 082 and on the basis of our verification, we certify that the Capital cost of 400KV Veltoor - Uravakonda I & II is detailed as under:

								(Amount	in Lakhs)
No.	Particulars	Freeh old Land	Buildi ngs and Civil Works	Tr. Lines	Nufs- Station	PLCC Com- munication System	Equipment includin Softwar	Total	IDC Included in the Total
1	Expenditure from 01.04.2014 (c) 1.03.2015			6979,94				6979.94	712.89
2	15(penditure from 01.04,2015 to >1.03,2016			6249,37				6249.37	556.18
3	Expenditure from 01.04,2016 to 21.03.2017			5170.74				5170.74	542.93
4	Expenditure from 01,04,2017 to 31,03,2018			392.48				392.48	41.21
3	Uspenditure from 01.04.2018 to 1.03.2619			12.59				12.59	1.32
	Tora:			18805.13				18805.17	1974.54

We certify that we have verified expenditure upto 31.03.2019 as referred above on the basis of the information drawn from the audited statement of accounts of Transmission Corporation of Telangana Limited as on 31.03.2019.

Further IDC has been calculated @10.50% on an average based on the rate of paid on term loans, since the interest during the construction period includes interest on other works under construction in books of accounts.

Place: Hyderabad Date: 22/06/2020

> Chief Engineer/Commit & FAC TSTRANSCO, Vidyut Boudha. Hydarahad - 550 002.

For M/s. Satyanarayana and Associates, Chartered Accountants.

(CA. V. Satyanarayana)

Partner.

M. NO. 204487 FRN: 007663S

UDI No. 20204487AAAACF2367

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Summary Sheet

Asset XXXVIII& XXXIX

Name of the Petitioner:

Transmission Corporation of Telangana Limited

on: Telangana

Name of the Region: Name of the Project:

400KV Veltoor - Uravakonda I & II

Name of the Transmission Element or Communication System

(Amount in Rs.Lakh)

					1,4110	COLUMN TO SERVE	anners.
51. No.	Particulars	Form No.	2019-20	2020-21	2021-22	2022-23	2023-24
1	2		3	4	- 6	5	- 6
1.1	Depreciation	10A	992.91	992.91	992.91	992.91	992.91
1.2	Interest on Loan	9E	1132.57	1023.35	914.13	804.91	695.69
1.3	Return on Equity	8	1344.13	1344.13	1344.13	1344.13	1344.13
1.4	Interest on Working Capital	11	66.63	65.06	63.50	61.95	60.40
1.5	O & M Expenses		161.47	167.11	172.98	179.07	185.32
	Total		3697.71	3592.56	3487.64	3382.97	3278.45

(Petitioner)

Chief Engineer/Commit & HAC TO FRANCISCO, Valvet Bossilia, Hyderabad - 500 082.

Normative parameters considered for tariff computations

Asset XXXVIII& XXXIX

Name of the Petitioner: Name of the Region:

Transmission Corporation of Telangana Limited

Telangana

Name of the Project:

Name of the Transmission Element or

400KV Veltoor - Uravakonda I & II

Communication System

(Amount in Rs.Lakh)

					Amount in 85	otaninj.
Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	6	5	6
Base Rate of Return on Equity	- 5	15.500	15.500	15.500	15.500	15,500
Tax Rate	15.	30.000	30.000	30.000	30,000	30,000
Effective tax rate	15.	34.944	34.944	34.944	34.944	34.944
Target Availability	%	98.000	98.000	98,000	98.000	98.000
Normative O&M per km	Rs. Lakh	1.322	1.368	1.416	1.466	1.517
Normative O&M per bay	Rs. Labb	32.150	33.280	34,450	35,660	36.910
Spares for WC as % of O&M	%	15,000	15.000	15.000	15.000	15.000
Receivables in Days for WC	Days	45	45	45	45	45
Bank Rate as on 01.04.2014	%	11.00%	11.00%	11.00%	11.00%	11.00%

Controller of Political Discourse Chief Feranciel Officer TBTNANSGO, Vidyal Soudha, Hyderabad - 550 082.

(Petitioner)

Chief Engineer/Comins & RAC 1971, (1972), Volyet Sociatia, Myo-mhad - 606 062,

ABSTRACT OF ADMITTED PARAMETERS FOR THE EXISTING TRANSMISSION ASSETS

Name of the Petitioner:

Transmission Corporation of Telangana

Name of the Region:

Limited Telangana

Name of the Project:

Name of the Transmission Element or

400KV Veltoor - Uravakonda I & II

Communication System

	(Amount in lakhs)
Date of Commencement	3-Nov-16
Petition Number	
Tariff Order Date	
PARTICULARS	Capital Expenditure admitted as on 31.03.2024
Apportioned approved Cost/ Revised cost estimates, if any (with reference and date of approval)	22,5(3.00
Freehold Land	
Leasehold Land	
Building and Other Civil Works	
Transmission Line	18,805.13
Sub-Station Equipments	
PLCC	
Total:	18,805.13
Notional Loan	
Notional Equity	
Total:	
Debt Equity Ratio	70:30
Debt	13,163.59
Equity	5,641.54
Total :	18,805.13
Cumulative amount of depreciation	7,335.61
Cumulative repayment of loan	7,335.61
Initial Spares	

Chief Feunciel Officer
TSTRANSCO, Vidyut Southa,
Hyperabad - 500 082.

Chief Engineer Control & RAD TETRANSCIO, Virgus Souchu, Hyderahad - 500 082.

Statement of Capital cost

Asset XXXVIII& XXXIX

Name of the Petitioner: Name of the Region: Name of the Project Name of the Transmission Element or Communication System Transmission Corporation of Telangana Limited Telangana

400KV Veltoor - Uravakonda I & II

CEA	(CHAPTER)	est 5	- 1	4.1.4	ALC: NO

					(Amount is	(Rs.Lakh)
5.No.	Particulars	2019-20	2029-21	2021-22	2922-23	2023-24
A	a) Opening Gross Block Amount as per books	18805.13	18805.13	18805.13	18805.13	18805.13
	b) Amount of capital liabilities in A(a) above					
	c) Amount of IDC included in A(a) above	1974.54	1974.54	1974.54	1974.54	1974.54
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	- 2	12	1.3	12	
В	a) Addition in Gross Block Amount during the period	0,00	0.00	.0.00	0.00	0.00
	b) Amount of capital liabilities in B(a) above					
	c) Amount of IDC included in B(a) above	0.00	0.00	0.00	0.00	0.00
-3	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	-	92	- 2	- 1	- 3
C	a) Closing Gross Block Amount as per books	18805.13	18805.13	18805.13	18805.13	18805.13
	b) Amount of capital liabilities in C(a) above	40000000	- 1000	0.000	100000000000000000000000000000000000000	100000
	c) Amount of IDC included in C(a) above	1974.54	1974.54	1974.54	1974.54	1974.54
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above				-	

Financial Advisor and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Souths, Hyderabad - 500 082, (Petitioner)

Chief Engineer/Commit & RAC TOTAL U.S.D., Viriust Souths, Mycomoust - 500 002.

Statement of Capital Works in Progress

Asset XXXVIII& XXXIX

Name of the Petitioner. Name of the Region: Name of the Project: Name of the Transmission Element or Transmission Corporation of Telangana Limited Telangana

400KV Veltoor - Uravakonda I & II Communication System

					(Amount in	Rs.Lakh)
5.No.	Particulars	2019-20	2929-21	2021-22	2022-23	2023-24
Α	a) Opening CWIP amount as per books		-	-	-	-
	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above	. +	-5		100	-
в	Addition/Adjustment in CWIP Amount during the period	194	40	- 1	100	
	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above	-		-	-	
C	a) Capitalisation/Transfer to Fixed Asset of CWIP	- 1			-	-
	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above	-	-	-	-	
D	a) Closing CWIP Amount as per books	-			-	-
	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above	7.4			-	-

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Official TSTRANSCO, Vidyut Souths, Hyderabad - 500 (82).

Without (Petitioner)

Chief Engineer/Commi & RAG TSTRANSCO, Vidyut Seudhe. Hyderabed - 500 052.

Financial Package upto COD

Asset XXXVIII& XXXIX

Name of the Petitioner: Name of the Region: Name of the Project:

Name of the Transmission Element or

Communication System

Transmission Corporation of Telangana Limited Telangana

400KV Veltoor - Uravakonda I & II

(Amount in Rs.Lakh)

					CAmount	in Ks.Lakh)
Particulars		Package as roved	Financial Package as en COD		As Admitted on COD	
	Currency a	nd Amount	Currency and	d Amount	Ourrency and Am 0 13 9 13 4 5	and Ameent
1	2	3	4	5	6	7
Loan-I		15759.10	200-1	13163.59		13163.59
Loan-II				71		1000000
Loan-III						
Total Loans		15759,10		13163.59		13163.59
Equity-		6753.90		5641.54		5641.54
Foreign						
Domestic		25 4376		00000000		p=300.0/2
Total Equity		6753.90		5641.54		5641.54
Debt : Equity Ratio		70:30				-
Total Cost		22513.00		18805.13		18805,13
	Debt	Equity	Total			
Add cap for 2013-14		10. 17.	-			
Add cap for 2014-15	Concount.	0.000	Canoni e			
Add cap for 2015-16	945.95	405.41	1351.36			
Add cap for 2016-17	11934.09	5114.61	17048.69			
Add cap for 2017-18	274.74	117.74	392.48			
Add cap for 2018-19	8.81	3.78	12.59			
	13163.59	5641.54	18805.13			
Add cap for year-1	Actual	Normative	122010			
Debt						
Equity						
Total						
Add cap for year-2	Actual	Normative				
Debt						
Equity				9		
Total	10			1.0		1
Total Capital Cost with add cap.						

Financial Advisor and Chief Controller of Accounts (Accounts) & Chief Financial Cifficer TSTRANSCO, Vidyut Soudha, Hyderabed - 500 082

H. W. hond (Petitioner) Chief Engineer/Commit & RAC TSTRANSCO, Vidyut Boudne, Hycombod - 500 092.

Calculation of Return on Equity

Asset XXXVIII& XXXIX

Name of the Petitioner: Name of the Region: Name of the Project:

COLUMN TO SERVICE STATE OF THE SERVICE STATE OF THE

Name of the Transmission Element or Communication System Telangana

Transmission Corporation of Telangana Limited

400KV Veltoor - Uravakonda I & II

1000	ACTURE DE PRODUCTION				(Amount	In Ks,Lakbo
SL No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	6	.5	6
1.3	Equity as on COD/Admitted equity	5641.54	3641.54	5041.54	5641.34	5641.54
1.2	Additional Capital made during the year.	0.00	0.00	0.00	0.00	0.00
1.3	Clsoing Equity	5641.54	5641.54	3641.34	5041.54	3641.54
1.4	Average Equity	5641.54	3641.54	.5641.54	5641,54	5641.54
1.5	Return on Equity(%)	15.500	15.500	15.500	15,500	15,500
1.0	Tax rate for respective year(%)	34,944	34.944	34.944	34.944	34.944
1.7	Rate of Return on Equity(%)	21.826	23.826	23.826	23.826	23.826
1.6	Return on Equity*	1344.13	1344.13	1344.13	1344.13	1344.13

A technology

Chlet Engineer/Commi 8 RAC TSTRAUGGO, Vidyut Souths, Hyderobad - 500 082,

Calculation of Weighted Average Rate of Interest on Actual Loans Asset XXXVIII& XXXIX

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project: Name of the Transmission Element or

400KV Veltoor-Uravakonda 1&II

Communication System

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Loan-1					
Gross loan - Opening					
	13,163.60	13,163.60	13,163,60	13,163.60	13,163.60
Cumulative repayments of Loans upto previous	1,535.61	2,851.82	4,168.03	5,484.24	6,800.46
Net loan - Opening	11,627.99	10,311.78	8,995,57	7,679.36	6,363.14
Add: Drawal(s) during the Year			-		
Less: Repayment (s) of Loans during the year	1,316.21	1,316.21	1,316.21	1,316.21	1,316.21
Net loan - Closing	10,311.78	8,995.57	7,679,36	6,363.14	5,046.93
Average Net Loan	-				
Rate of Interest on Loan on annual basis	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on loan	1212.89	1068.09	923.29	778.49	633,70
Loan repayment effective from (date to be indicated)					

(Petitioner)

Chief Engineer/Commi & RAC TSTRANSCO, Vidyut Soudhe. Hyderabad - 500 082.

Financial Accounts (Accounts) & Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082.

Calculation of Interest on Normative Loan

Asset XXXVIII& XXXIX

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project: Name of the Transmission Element or

400KV Veltoor - Uravakonda I & II

Communication System

(Amount in Rs.Lakh)

				famoune in	No. of Street, St.
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	5	4	5.
Gross Ioan - Opening	13163.59	13163.59	13163.59	13163.59	13163.59
Cumulative repayment of Normative Loan upto previous year	2371.06	3363.97	4356.88	5349.79	6342.70
Net Normative loan - Opening	10792.53	9799.62	8806.71	7813.80	6820.89
Increase/Decrease due to ACE/de- capitalisation during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment of Loans during the year	992.91	992.91	992.91	992.91	992.91
Net Normative Ioan - Closing	9799.62	8806.71	7813.80	6820.89	5827.98
Average Normative Loan	10296.08	9303.17	8310.26	7317.35	6324.43
Rate of Interest of actual loans	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on Normative loan	1132.57	1023.35	914.13	804.91	695,69

Phancial Adviser und Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTPANSCO, Vidyut Soudha, Hyderabad - 500 082. (Petitioner)

Chief Engineer/Commil & RAC TSTRANSCO, Vidyut Soudha, Hysterapad - 500 982.

PART-III FORM-10A

Statement of Depreciation

Asset XXXVIII & XXXIX

Name of the Petitioner: Name of the Region: Name of the Project: Name of the Transmission Element or Communication System

Transmission Corporation of Telangana Limited

Telangana

400KV Veltoor - Uravakonda I & II

(Assessed in He Labb)

					(Amount in Rs.Lakh)		
SLNo.	Particulars	2019-20	2020-21	2021-22	2922-23	2023-24	
-1	2	3	4	- 6	- 5	6	
1.	Opening Capital Cost	18805.13	18805.13	18805.13	18805:13	18805.13	
2	Closing Capital Cost	18805.13	18803.13	18805.13	18805.13	18803-13	
3	Average Capital Cost	18805.13	18805.13	18805.13	18805.13	18805.13	
4.	Freehold land						
5.	Rate of depreciation	5.28%	5.28%	5.28%	5.28%	5.28%	
6.	Depreciable value	16924.62	16924.62	18924.62	16924.62	18924.62	
7	Balance useful life at the beginning of the period	22	21	20	19	18	
8	Remaining depreciable value	13560.65	12567.74	11574.83	10581.92	9589.00	
9	Depreciation (for the period)	992.91	992.91	992.91	992.91	992.91	
10	Depreciation (annualised)	992.91	992.91	992.91	992.91	992.91	
11	Cumulative depreciation at the end of the period	2060.92	4356.88	5349.79	6342.70	7305.61	
12	Less: Cumulative depreciation adjustment on account of de-capitalisation			100			
13	Net Cumulative depreciation at the end of the period	3363.97	4356.88	5349.79	6342.70	7335.61	

Financial Adviser and Chief Controler of Accounts (Accountal & Chief Financial Officer TSTRANSCO, Vidyut Saudha, Hyderabad - 500 082.

Ate (Petitioner)

Chief Enginew/Commit 8 BAC Tattletisco, Visyet Boudse, Hydrapad - 500 Gaz.

Calculation of Interest on Working Capital

Asset XXXVIII& XXXIX

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

400KV Veltoor - Uravakonda I & II

Name of the Transmission Element or Communication System

(Amount in Rs.Lakh)

			bedrooding are and	The second second		
SL No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3.	4	6	5	6
1	O & M Expenses	13.46	13.93	14.41	14.92	15.44
2	Maintenance Spares	24.22	25.07	25.95	26.86	27.80
3	Receivables	455.88	442.92	429.98	417.08	404.19
4	Total Working Capital	493.56	481.91	470.35	458.86	447.44
5	Rate of Interest	13.50%	13.50%	13.50%	13.50%	13.50%
6	Interest on Working Capital	66.63	65.06	63.50	61.95	60.40

Financial Advisor and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudhit, Hyderabad • 500 082.

(Petitioner)

Chief Engineer/Commi & RAC TSTRANSCO, Vidyot Soudha, Hyderabad - 500 688.

SATYANARAYANA AND ASSOCIATES

CHARTERED ACCOUNTANTS

ASSET NO XXXX &XXXXI . 400 KV SURYAPETA - KV KOTA I SIL



Certificate

This is to certify that we have verified relevant records and other documents of Transmission Corporation of Telangana Limited having its registered office at 6-3-572, VIDYUT SOUDHA. KHAIRATABAD, HYDERABAD, TELANGAN, 6-500 082 and on the basis of our verification, we certify that the Capital cost of 400KV Suryapeta -KV Kota I & II is detailed as under:

N.	Particulary	1 5	The state of					(Amount in	Lakhy)
Ner		Frech old Land	Buildli ngs and Civil Works	Tr. Lines	Sub- Station	PLCC/Com munication System	Equipme nt including Software	Total	IDC Include d in the Total
1	Expenditure from 01.04.2013 to 31.03.2014			131,53				13 E.53	13.81
3	Expenditure from 01.04.2014 to 31.03.2015			6292.69				6292.69	566.73
	Uxpenditure from 01.04.2015 to 31.03.2016			14305.83				14305.83	1302.11
4	Expenditure from 01.04.2016 to 31.03.2017			2197/41				2197.41	23(.7)
5	Expenditure from 01.04.2017 to 31.03.2018								
1	Expenditure tites 01.04.2018 to 31.63.2019								
	Total			22927.46				22927.46	2407.43

We certify that we have verified expenditure upto 31.03.2019 as referred above on the basis of the information drawn from the audited statement of accounts of Transmission Corporation of Telangana Limited as on 31.03.2019.

Further IDC has been calculated @10.50% on an average based on the rate of paid on term loans, since the interest during the construction period includes interest on other works under construction in books of accounts.

Place: Hyderabad Date: 22/06/2020

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New India Violation Security

New India Control

the control of the co

For M/s, Satyanarayana and Associates, Chartered Accountants

(CA. V. Satyanarayana)

Partner.

M. NO. 204487 FRN: 007663S

UDI No. 20204487AAAACE4644

Summary Sheet

Asset XXXX & XXXXI

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

400KV Suryapeta -KV Kota I & II

Name of the Transmission Element or Communication System

COM	and the state of t		(Amount in Rs.Lakh)				
SL No.	Particulars	Form No.	2019-20	2020-21	2021-22	2022-23	2023-24
1	2		3	4	6	5	6
1.1	Depreciation	10A	1210.57	1210.57	1210.57	1210.57	1210.57
1.2	Interest on Loan	9E	1373,04	1239.88	1106.72	973.55	840.39
1.3	Return on Equity	8.	1638.78	1638.78	1638.78	1638.78	1638.78
1.4	Interest on Working Capital	11	80.21	78.26	76.32	74.40	72.48
1.5	O & M Expenses		178.52	184.76	191.24	197.98	204.89
	Total		4481.12	4352.25	4223.63	4095.29	3967.11

(Petitioner)

Chief Engineer/Commi & RAC TSTRANSCO, Vidyul Soudha. Hyderabad + 500 082.

Normative parameters considered for tariff computations

Asset XXXX & XXXXI

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

Name of the Transmission Element or Communication System

400KV Suryapeta -KV Kota I & II

(Amount in Re Lakh)

					(Amount in Rs.Lakn)			
Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	6	5	6		
Base Rate of Return on Equity	- %	15.500	15.500	15.500	15.500	15.500		
Tax Rate	1.5	30.000	30.000	30.000	30.000	30.000		
Effective tax rate	76	34.944	34.944	34,944	34.944	34.944		
Target Availability	15	98.000	98,000	98,000	98.000	98.000		
Normative O&M per km	Rs. Lakh	1.322	1.368	1.416	1.466	1.517		
Normative O&M per bay	Rs. Lakh	32.150	33.280	34.450	35.660	36.910		
Spores for WC as % of O&M	15.	15.000	15.000	15.000	15.000	15,000		
Receivables in Days for WC	Days	45	45	45	45	45		
Bank Rate as on 01.04.2014	15	11.00%	11.00%	11.00%	11.00%	11.00%		

Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soucha, Flyderabad - 500 082.

tech (Petitioner)

Chief Engineer/Commt & FIAC TSTRANSCO, Vidyut Soudha. Hydernbad - 800 092.

ABSTRACT OF ADMITTED PARAMETERS FOR THE EXISTING TRANSMISSION ASSETS

Name of the Petitioner:

Transmission Corporation of Telangana

Limited

Name of the Region:

Telangana

Name of the Project:

Name of the Transmission Element or

400KV Suryapeta -KV Kota I & II

Communication System

(Amount in lakhs)

	(Amount in lakhs)			
Date of Commencement	20-Oct-16			
Petition Number				
Tariff Order Date				
PARTICULARS	Capital Expenditure admitted as on 31.03.2024			
Apportioned approved Cost/ Revised cost estimates, if any (with reference and date of approval)	23,108.70			
Freehold Land				
Leasehold Land				
Building and Other Civil Works				
Transmission Line	22,927.46			
Sub-Station Equipments				
PLCC				
Total:	22,927.46			
Notional Loan	7,117,0357			
Notional Equity				
Total:				
Debt Equity Ratio	70:30			
Debt	16049.22			
Equity	6878.24			
Total:	22927.46			
Cumulative amount of depreciation	9014.60			
Cumulative repayment of loan	9014.60			
Initial Spares	- ASS .			

Enancial Adviser and Chlet Controller of Accounts (Accounts) & Chief Financial Officer TSTF(ANSCO, Vidyut Soudha, Hyderabad - 500 082. (Petitioner)

Chief Engineer/Commi & RAC TSTRAHSCO, Virtual Southin. Hydenubad - S00 062.

Statement of Capital cost

Asset XXXX & XXXXI

Name of the Petitioner: Name of the Region: Name of the Project: Name of the Transmissio

Name of the Transmission Element or Communication System Transmission Corporation of Telangana Limited Telangana

400KV Suryapeta -KV Kota I & II

I A	viscone:	100	Des.	Elm.	Lock by

					(Amount ir	n Es.Lakh)	
5.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24	
٨	a) Opening Gross Block Amount as per books	22927.46	22927.46	22927.46	22927.46	22927.46	
	b) Amount of capital liabilities in A(a) above						
0.1	c) Amount of IDC included in A(a) above	2407.38	2407.38	2407.38	2407.38	2407.38	
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	2	16	8	112	-	
В	a) Addition in Gross Block Amount during the period						
0.7	b) Amount of capital liabilities in B(a) above						
	c) Amount of IDC included in B(a) above	-	- 4	-	-	-4	
	d) Amount of IEDC (excluding IDC, PC, FERV & Hedging cost) included in B(a) above	4	(4	-	84	- 64	
C	a) Closing Gross Block Amount as per books	22927.46	22927.46	22927.46	22927.46	22927.46	
- 17.5	b) Amount of capital liabilities in C(a) above		1000000		100	100000000	
	c) Amount of IDC included in C(a) above	2407.38	2407.38	2407.38	2407.38	2407.38	
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	-	-		-		

Filiancial Admisor and Graef Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 062.

(Petitioner)

Chlef Engineer/Commit & BAC TSTF40/SIGO, Vidyut Shudha, Flytherated v 201/052.

Statement of Capital Works in Progress

Asset XXXX & XXXXI

Name of the Petitioner: Name of the Region: Name of the Project:

Name of the Project: Name of the Transmission Element or Communication System Transmission Corporation of Telangana Limited Telangana

400KV Suryapeta -KV Kota I & II

(Amount in Rs.Lakh)

5.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	a) Opening CWIP amount as per books		1.4	-		
	b) Amount of capital liabilities in a above		- 1111	1-1		
	c) Amount of IDC included in (a) above	90		3# Y	- 25	-
п	Addition/Adjustment in CWIP Amount during the period	81	-	8	100	
	b) Amount of capital liabilities in a above.					
	c) Amount of IDC included in (a) above	-			-	
C	a) Capitalisation/Transfer to Fixed Asset of CWIP	- 4	174			
	b) Amount of capital liabilities in a above.					
	c) Amount of IDC included in (a) above		-	-	- 14	
D.	a) Closing CWIP Amount as per books		-		7.6	
1157	b) Amount of capital liabilities in a above	1.0				
	c) Amount of IDC included in (a) above		1.0		-	-

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officiar TSTRANSCO, Vioyut Soudha. Hyderabad - 500 082. (Petitioner)

Chief Engineer/Commi & RAC TSTRANSCO, Vidyut Souths. Hyderabad - 500 082.

Financial Package upto COD

Asset XXXX & XXXXI

Name of the Petitioner: Name of the Region; Name of the Project:

Name of the Transmission Element or

Communication System

Transmission Corporation of Telangana Limited Telangana

400KV Suryapeta -KV Kota I & II

(Amount in Rs.Lakh)

	The special	Package as	Electrical Pro-	(Amount in Rs.Lakh)				
Particulars .		roved	CO		As Admitted on COD Currency and Amount			
	Currency a	nd Amount	Currency an	d Amesont				
1	2	3	4	3	6	7		
Loan-I		16176.09		16049.22		16049.22		
Loan-II		1.100.000.00				7000000		
Loan-III								
Total Leans		16176.09		16049.22		16049.22		
Equity-		6932.61		6878.24		6878.24		
Foreign								
Domestic		100110240		PELAYORO		000000		
Total Equity		6932.61		6878.24		6878.24		
Debt : Equity Ratio		70:30						
Total Cost		23108.70		22927.46		22927.46		
	Debt	Equity	Total					
Add cap for 2013-14		10.00						
Add cup for 2014-15		- 4						
Add cap for 2015-16								
Add cap for 2016-17	16049.22	6878.24	22927.46					
Add cap for 2017-18	- 4	114						
Add cap for 2018-19								
Land Millians and the second	16049.22	6878.24	22927.46					
Add cap for year-1	Actual	Normative						
Debt	1,000,000							
Equity								
Total								
Add cap for year-2	Actual	Normative						
Debt								
Equity						1		
Total	-							
Total Capital Cost with add cap.								

Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hyderabad - 500 082. (Petitioner)

Ticke

Chief Engineer/Commt & RAC TSTRANBCO, Vidyut Sociona, Hydorabad - 500 052.

Calculation of Return on Equity

Asset XXXX & XXXXI Transmission Corporation of Telangana Limited

Name of the Petitioner: Name of the Region: Name of the Project:

Telangana

Name of the French.
Name of the Transmission Element or
Communication System

400KV Suryapeta -KV Kota I & II

(Amount in Re Lakk

					(Amount	in Rs.Lakh)
SL No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3.	4	6	3	6
1.1	Equity as on COD/Admitted equity	6878.24	6878.24	6878.24	6878.24	6878.24
1.2	Additional Capital made during the year.	0.00	0.00	0.00	0.00	0.00
1.3	Choing Equity	6878.24	6878.24	6878.24	6878.24	6878.24
1.4	Average Equity	6878.24	6878.24	6878.24	6878.24	6878.24
1.5	Return on Equity(%)	15,500	15.500	15.500	15,500	15.500
1.6	Tax rate for respective year(%)	34,944	34.944	34,944	34.944	34,944
1.7	Rate of Return on Equity(%)	23.826	23,826	23.826	23.826	23.826
1.8	Return on Equity*	1635.78	1638,78	1638.78	1638.78	1638.78

Controller of Accounts Diccounts of Chief Financial Officer TSTRANSCO, Vidyut Saudha. Hyderabed - 500 062. (Petitioner)

Chlof Engineer/Dommil & RAC TSTRUMSCO, Vidyut Seudina. Hyderabad - 500 082.

Calculation of Weighted Average Rate of Interest on Actual Loans Asset XXXX & XXXXI

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Telangana

Name of the Region:

Name of the Project: Name of the Transmission Element or

400 KV Suryapet-KV Kota I&II

Communication System

7.5			(Amount in Rs.Lak			
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24	
Loan-1			120/12/2017		- 2007	
Gross Ioan - Opening						
	16,049.22	16,049.22	16,049.22	16,049.22	16,049.22	
Cumulative repayments of Loans upto previous year	2,808.61	4,413.53	6,018.45	7,623.37	9,228.29	
Net loan - Opening	13,240.61	11,635.69	10,030.77	8,425.85	6,820.93	
Add: Drawal(s) during the Year			-	-		
Less: Repayment (s) of Loans during the year	1,604.92	1,604.92	1,604.92	1.604.92	1,604.92	
Net loan - Closing	11,635.69	10,030.77	8,425.85	6,820.93	5,216.01	
Average Net Loan						
Rate of Interest on Loan on annual basis	11.00%	11.00%	11.00%	11.00%	11.00%	
Interest on loan	1005.28	1184.52	1007.98	831.44	478.35	
Loan repayment effective from (date to be indicated)						

Ellencial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hydersbed - 500 082.

(Petitioner)

Chief Engineer/Commit & RAC TSTRANSCIO, Videus Soudha, Hyderabad - 500 082

Calculation of Interest on Normative Loan

Asset XXXX & XXXXI

Name of the Petitioner: Name of the Region: Transmission Corporation of Telangana Limited

Telangana

Name of the Project: Name of the Transmission Element or

400KV Suryapeta -KV Kota I & II

Communication System

Particulars

			(Amount in Rs.Lakh)		
2019-20	2020-21	2021-22	2022-23	2023-24	
2	3	5	4	5	
16049,22	16049.22	16049.22	16049.22	16049.22	
2004 9 775	4122.92	5383 80	6203.46	7804.00	

Gross Ioan - Opening	16049.22	16049.22	16049.22	16049.22	16049.22
Cumulative repayment of Normative Loan upto previous year	2961.75	4172.32	5382.89	6593.46	7804.03
Net Normative loan - Opening	13087.47	11876.90	10666.33	9455.76	8245.19
Increase/Decrease due to ACE/de- capitalisation during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment of Loans during the year	1210.57	1210.57	1210.57	1210.57	1210.57
Net Normative Ioan - Closing	11876.90	10666.33	9455.76	\$245.19	7034.62
Average Normative Loan	12482.19	11271.62	10061.05	8850.48	7639.91
Rate of Interest of actual loans	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on Normative Ioan	1373.04	1239.88	1106.72	973.55	840.39

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANGCO, Vidyut Soudha, Hyderabad - 500 082. (Petitioner)

Chief Engineer/Commt & RAC TSTRANSCO, Vidyut Souths. Hyderabad - 500 082.

PART-III FORM-10A

Statement of Depreciation

Asset XXXX & XXXXI

Name of the Petitioner: Name of the Region: Name of the Project: Name of the Transmission Element or Communication System Transmission Corporation of Telangana Limited Telangana

400KV Suryapeta -KV Kota I & II

	nt In	

					(Amount in Rs.Lakh)	
SLNe,	Particulars	2019-20	3020-21	2021-22	2022-23	2023-24
1	2	3	4	6	.5	6
1	Opening Capital Cost	22927.46	22927.46	22927.46	22927.46	22927.4/
2	Closing Capital Cost	22927.46	22927.46	22927.46	22927.46	22927.46
- 3	Average Capital Cost	22927.46	22927.46	22927.46	22927.46	22927.46
4	Freebold land	-	-			
- 5	Rate of depreciation	5.28%	5.26%	5.28%	5.28%	5.28%
- 6	Depreciable value	20634.72	20634.72	20634.72	20634.72	20634.72
7	Balance useful life at the beginning of the period	22	21	20	19	10
- 8	Remaining depreciable value	16462.40	15251.83	14041.26	12830.69	11620.12
9	Depreciation (for the period)	1210.57	1210.57	1210.57	1210.57	1210.57
10	Depreciation (annualised)	1210.57	1210.57	1210.57	1210.57	1210.57
11.	Cumulative depreciation at the end of the period	4172.32	5382.89	6593.46	7804.03	9014.60
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	-				-
13	Net Cumulative depreciation at the end of the period	4172.32	5382.89	6593.46	7804.03	9014.60

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soudha, Hydarabad - 500 082. (Petitioner)

Chief Engineer/Commit & PAG TSTPANGCO, Vidyot Boudha, Hycierabad - 500 002

Calculation of Interest on Working Capital

Asset XXXX & XXXXI

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

400KV Suryapeta -KV Kota I & II

Communication System

Name of the Transmission Element or

-					(Amount in Rs.Lakh)	
St. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	6	5	0
1	O & M Expenses	14.88	15.40	15.94	16.50	17.07
2	Maintenance Spares	26.78	27.71	28.69	29.70	30.73
3	Receivables	552.47	536.58	520.72	504.90	489.10
4	Total Working Capital	594.12	579.69	565.35	551.10	536.91
5	Rate of Interest	13.50%	13.50%	13.50%	13.50%	13.50%
6	Interest on Working Capital	80.21	78.26	76.32	74.40	72.48

Financial Adviser and Chief Controller of Accounts (Accounts) & Chief Financial Officer TSTRANSCO, Vidyut Soucha, Hydenibad - 500 062 H. Wichard (Petitioner)

Chief Enginesy Commit & FAC T87R/AHSCO, Vidyul Boudise, Hysterbad - 500 Skk.

TRANSMISSION CORPORATION OF TELANGANA LIMITED

Erection of 400/220/132kV Suryapet substation, in Nalgonda District and connected network under transmission system improvement, on stand alone basis – Revised Administrative Approval - Accorded

T.O.O.(CE-Projects-I) Ms.No. 11,

Date: 15.03.2016.

PROCEEDINGS:

- Administrative approval was accorded vide T.O.O. (CE-Construction) Ms.No 49, dated: 04.12.2014, for the "Erection of 400/220/132kV Suryapet substation, in Nalgorda District and connected network under Transmission System Improvement, on stand alone basis" with an estimated cost of Rs.1594.42 Crore and Rs.143.61 Crore towards Interest During Construction (IDC). The total cost of the scheme including IDC is Rs.1738.03 Crores.
- According to the minutes of 39th meeting of the Standing Committee on Power System
 Planning of Southern Region held on 28.12.2015 and 29.12.2015 at NRPC New Delhi , vide
 clause No. 7.6 C) xiv), TSTRANSCO was requested to to implement LILO of both circuits of
 Malkaram VTPS 400kV DC line at Suryapet 400kV SS instead of LILO of only one circuit.
- As per the above approval, the following features are to be adopted in 400kV Suryapet Substation:
 - a. LILO of second circuit of 400kV VTPS Malkaram DC line to 400/220/132kV Suryapet
 SS.
 - b. 2 Nos. 400kV Twin Moose bays at 400kV Suryapet SS to accommodate LILO of second circuit of 400kV VTPS – Malkaram DC line
- 4. In view of the above, after careful consideration it is proposed to revise the Administrative approval accorded vide T.O.O (CE-Construction) Ms.No.49, dt: 04.12.2014 duly including the above works. The revised estimated cost works out to Rs. 1622.68 Crores excluding IDC and Rs 144.80 Crores towards Interest During Construction (IDC). The total cost of the scheme including IDC is Rs.1767.48 Crores, as per the Annexure enclosed.
- The Chief Engineer/Projects-I/TSTRANSCO/Vidyut Soudha, Hyderabad is hereby authorized to take up the above works making necessary budget provision and funds tie up.

Chief Engines County & Reco

- The scheme will be executed with capital funds of TSTRANSCO (or) Loan sanctioned by PFC/REC/Banks/ any other Financial Agency. The Chief Engineer/Projects-I/ TSTRANSCO, Vidyut Soudha, Hyderabad is requested to provide the necessary budget and the scheme ID.
- This order is issued with the concurrence of the CMD/TSTRANSCO vide Regd. No.335, dated; 01.03.2016.

(BY ORDER AND IN THE NAME OF TRANSMISSION CORPORATION OF TELANGANA STATE)

Encl: Annexure

To DIRECTOR/ PROJECTS & LI

The Chief Engineer/ Projects-I/TSTRANSCO/ Vidyut Soudha, Hyderabad Copy to the :

- 1. Chief Engineer/Projects-II/ TSTRANSCO/Vidyut Soudha/Hyderabad.
- 2. Chief Engineer/Transmission / TSTRANSCO/Vidyut Soudha/Hyderabad.
- 3. Chief Engineer/ SLDC & Telecom /TSTRANSCO/ Vidyut Soudha/Hyderabad.
- 4. Chief Engineer/Planning, Comml., Co-ordination)/TSTRANSCO/V.S.//Hyd.
- Chief General Manager/HRD / TSTRANSCO/ Vidyut Soudha/Hyderabad.
- 6. FA & CCA (Accounts)/ TSTRANSCO/ Vidyut Soudha/Hyderabad.
- 7. P.S. to the CMD /TSTRANSCO/Vidyut Soudha/ Hyderabad.
- 8. ADE (T) to the Director (P)/TSTRANSCO/ Vidyut Soudha/ Hyd.
- 9. P.S to the Director (Transmission)/TSTRANSCO/ Vidyut Soudha/ Hyd
- 10. DE (T) to the Director (HR & Grid Operation)/ TSTRANSCO/ Vidyut Soudha/ Hyderabad.
- 11. P.S. to the JMD (Comml., Coordination & Vigilance) /TSTRANSCO/V.S./Hyd.
- Chief Engineer/Warangal Zone / Warangal.
- 13. Chief Engineer/Rural Zone/ TSTRANSCO/ Hyderabad.
- 14. Chief Engineer/Metro Zone/ TSTRANSCO/ Hyderabad.
- 15. Superintending Engineer/Power System/TSTRANSCO/Vidyut Soudha/Hyd.
- 16. Superintending Engineer/400kV/Metro/CTI/Erragadda/Hyderabad.
- Superintending Engineer/400kV/Rural/CTI/Erragadda/Hyderabad.
- 18. Company Secretary/TSTRANSCO/ Vidyut Soudha/Hyderabad
- 19. Estate Officer/TSTRANSCO/ Vidyut Soudha/Hyderabad
- 20. Central Record Section 2 copies

// FORWARDED BY ORDER //

DIVISIONAL ENGINEER-I/SE/PM-I/400kV

Chief English Course & RAC Turk-PECO, World Bouchs Foremand - CO 1982

Abstract Estimate: Erection of 400/220/132kV Suryapet Sub-station, in Nalgonda District and connected network under Transmission System Improvement, on stand alone basis

SI. No.	Description of Line/ Substation	Capacity/L No, of b	apacity/Length/ Am No, of bays Rs.	
A:400	kV Transmission System:			
1	400/220/132 kV Suryapet Substation	2x315 & 2x100	MVA	13140.84
2	400kV Bay Extensions (Quad) at Shankarapalli Substation.	2	Nos.	10,40,04
3(i)	LILO of one circuit of 400kV VTS – Malkaram DC line to the proposed 400/220/132kV Suryapet Substation	5	km	880.00
3(ii)	LILO of second circuit of 400kV VTS – Malkaram DC line to the proposed 400/220/132kV Suryapet Substation	5	km	900.00
4	400kV Quad DC line from Proposed 400/220kV Kamavarapukota SS to Proposed 400/220/132kV Suryapet SS	212	km	56702.33
5	400kV Quad DC line Proposed 400/220/132kV Suryapet SS to existing 400/220kV Shankarapalli SS	240	km	56744.35
6(i)	400kV Twin Moose bays for LILO of one circuit of 400kV VTS – Malkram DC line to the proposed 400/220/ 132kV Suryapet Substation.	2	Nos.	1200.00
6(ii)	400kV Twin Moose bays for LILO of second circuit of 400kV VTS – Malkram DC line to the proposed 400/220/ 132kV Suryapet Substation.	2	No.s	1560.00
	Sub-Total:			131127.52
B:22	0kV Transmission System:			
	220 kV Lines:			
1	LILO of one Circuit of Chillakallu – Narkatpally DC line to the proposed 400/220/132kV Suryapet Substation	21	km	1,466.64
2	220kV DC Moose line to make LILO of (ckt- I&II) of 220kV Miryalaguda – Khammam at the proposed 400/220/132kV Suryapet SS	30	km	4190.40
	Sub-Total:			5,657.04

Chief Engineer/Correct & RACI TSTRANSCO, Vidyal Scoolina, Figuration - 500 (Inc.)

			_	
1	132kV lines: Proposed 400/220/132kV Suryapet	7	km	309.19
(i)	Substation to 132kV existing Suryapet Substation 132 kV DC line		NIII .	300,13
(ii)	Proposed 400/220/132kV Suryapet Substation to 132kV existing Shaligowraram Substation 132 kV DC/SC line	35	km	1282.40
iii)	Proposed 400/220/132kV Suryapet Substation to 132kV existing Thungathurthy SS 132 kV DC/SC line	30	km	1099.20
2	132kV Bay Extensions:			
(i)	132 kV Bay Extensions at Suryapet 132 kV SS	2	Nos.	132.80
(ii)	132 kV Bay Extensions at Shalogowraram132 kV SS	1	No.	66.40
(iii)	132 kV Bay Extensions atThungathurthy 132 kV SS	1	No.	66.40
	Sub-Total:			2956.39
D:C	ommunication Equipment (approx.):			
(i)	400kV Works	L	S	1500.00
(ii)	220kV Works	L	S	
(iii)	132kV Works	L	S	
	Total (A+B+C+D) :			141,240.95
E)	Special T & P @ 1%:			1,412.41
	Total (A+B+C+D) :			142,653.36
F)	Contingencies (3%):			4,279.60
	Total including contingencies :			146,932.96
G)	Estt. and other charges @ 10,75% :			15,335.24
	Grand Total :			162,268.20
	or Say (Rs. in Crores):			1,622.68
	Interest During Construction (Rs. in Crores) :			144.80
	Total (including IDC) -(Rs. in Crores)			1,767.48

A. Winkows of Control & RAC TSTRANSOO, Vidyut Southin, Mydurabad - 500 UR2

CHIEF ENGINEER Projects-I

TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

Erection of 400/220/132kV Suryapet substation, in Nalgorida District and connected network under transmission system improvement, on stand alone basis – Administrative Approval - Accorded

T.O.O.(CE-Construction/400kV-II) Ms.No. 01,

Date: 17-01-2014.

PROCEEDINGS:

Administrative approval was accorded vide T.O.O. (CE-Construction/400kV) Ms.No.285, dated: 27.12.2012, for the transmission scheme for "Evacuation of Power from HNPCL(1040 MW) Power Plant and Associated transmission System for HNPCL Power Plant under System Improvement" with the scope of works consisting of 400kV Substations at Kamavarapukota and Suryapet with connected transmission network, at an estimated cost of Rs. 1848.56 Crore and Rs. 167.37 Crore towards Interest During Construction (IDC). The total cost of the scheme including IDC is Rs. 2015.93 Crore.

- The APERC was requested vide this office letter dated: 11.01.2013, for Investment approval for the said scheme, to take up the works. Referring to this office letter, the Commission Secretary, APERC vide letter dated: 19.10.2013, request to submit a revised proposal for construction of 400/220/132kV Substation at Suryapet on stand alone basis.
- Accordingly, APTRANSCO has approved the following transmission scheme under system improvement, after conducting the load flow studies.
 - i) Erection of 400/220/132kV Substation at Suryapet- (2x315 & 2x100 MVA)
 - Erection of LILO of one circuit of 400kV VTS Malkram DC line to the proposed 400/220/132kV Suryapet Substation – 5 kM
 - Erection of 400kV Quad Moose DC line from 400/220kV Kamavarapukota
 SS- Survapet 400/220/132kV SS 212 kM
 - Erection of 400kV Quad Moose DC line from Yeddumailaram SS Proposed 400kV Suryapet SS – 240 kM
 - Erection of LILO of one Circuit of 220kV Chillakallu Narkatpally DC line to the proposed 400/220/132kV Suryapet Substation – 21 kM
 - vi) Erection of LILO of (Ckt-I&II) of 220kV Khammam Miriyalaguda DC line to the proposed 400/220/132kV Suryapet Substation – 30 kM
 - vii) Erection of 132kV DC line from proposed 400/220/132kV Suryapet to 132kV existing Suryapet Substation – 7 kM

Chief Engineer Corrent & RAC TENRASSCO, Vistal Southa, Hyderated - 500 952

- viii) Erection of 132kV DC/SC line from proposed 400/220/132kV Suryapet to 132kV existing Shaligowraram Substation – 35 kM
- Erection of 132kV DC/SC line from proposed 400/220/132kV Suryapet to 132kV existing Thungathurthy Substation – 30 kM
- Erection of 400kV (Quad) Bay Extensions at Shankarapalli SS 2 Nos.
- xi) Erection of 132kV Bay Extensions at existing 132kV Suryapet SS = 2Nos.
- xii) Erection of 132kV Bay Extension at existing 132kV Shaligowraram SS 1No.
- xiii) Erection of 132kV Bay Extension at existing 132kV Thungathurthy SS = 1No.
- 4. After careful consideration, APTRANSCO accords administrative approval for the "Erection of 400/220/132kV Suryapet substation, in Nalgonda District and connected network under transmission system improvement, on stand alone basis" with the above scope of works at an estimated cost of Rs.1585.11 Crore and Rs.172.25 Crore towards Interest During Construction (IDC). The total cost of the scheme including IDC is Rs.1757.36 Crore, as per the Annexure enclosed.
- The Chief Engineer/Construction/400 kV- 1& II and the Chief Engineer/ ConstructionI, Vidyut Soudha, Hyderabad are here by authorized to take up the above works
 making necessary budget provision and funds tie up.
- 6. In exercise of the powers conferred vide G.O.Ms.No.115, dated 07-10-2003 of Government of Andhra Pradesh, APTRANSCO or their authorized representatives shall have the powers for placing of the electric supply lines or electric plant for the transmission of electricity or for the purpose of telephonic or telegraphic communications necessary for the proper co-ordination of works that a telegraphic authority possesses under the provision of the Indian Telegraph Act, 1885 (Central Act-13 of 1885).
- This order is issued with the concurrence of the Director (Finance & Revenue) vide Regd. No.107, dated: 09.01.2014.

(BY ORDER AND IN THE NAME OF TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED)

Encl: Annexure

S.SUBRAHMANYAM DIRECTOR/ PROJECTS

Chief Enginee /Comm! & RAC TSTRAVEICO, Vidyut Soudhe, Hydrochid - 500 0AZ.

To
The Chief Engineer/ Construction/400kV-I&II/ Vidyut Soudha, Hyderabad
The Chief Engineer/ Construction-I/ Vidyut Soudha, Hyderabad

Contd...3

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Copy to the :

- The Chief Engineer/ Construction-II/APTRANSCO/ Vidyut Soudha, Hyderabad,
- The Chief Engineer /Civil/APTRANSCO/ Vidyut Soudha/Hyderabad,
- Chief Engineer/ Transmission/APTRANSCO/ Vidyut Soudha/Hyderabad,
- Chief Engineer/ Telecom /APTRANSCO/ Vidyut Soudha/Hyderabad,
- 5. Executive Director/Plg, RAC &Reforms/APTRANSCO/idyut Soudha/Hyderabad,
- Chief Engineer/Power Systems/APTRANSCO/Vidyut Soudha/Hyderabad,
- Chief Engineer/Grid Operation/APTRANSCO/ Vidyut Soudha /Hyderabad,
- Chief General Manager/HRD & Trg./ APTRANSCO/ Vidyut Soudha/Hyderabad,
- Executive Director (Finance)/ APTRANSCO/ Vidyut Soudha/Hyderabad,
- 10. FA & CCA (CF)/ APTRANSCO/ Vidyut Soudha/Hyderabad,
- 11.FA & CCA (TR)/ APTRANSCO/ Vidyut Soudha/Hyderabad,
- 12.P.S. to the Chairman & Managing Director/APTRANSCO/Vidyut Soudha/ Hyderabad,
- 13. P.S. to the Joint Managing Director (HRD, Comml., IPC,&IT)/APTRANSCO/ VS/Hyd.,
- 14. P.S. to the Joint Managing Director (Vigilance & Security)/APTRANSCO/ VS/Hyd.,
- 15. P.S. to the Director (Finance & Revenue)/APTRANSCO/ Vidyut Soudha/ Hyderabad,
- 16.P.S. to the Director (Projects)/ APTRANSCO/ Vidyut Soudha/Hyderabad,
- 17. P.S. to the Director (Grid & Transmission Management/ APTRANSCO/ VS/Hyd.
- 18. Chief Engineer/Metro Zone/ APTRANSCO/ Hyderabad.
- 19. Chief Engineer/Rural Zone/ APTRANSCO/ Hyderabad.
- 20. Chief Engineer/Zone/APTRANSCO/Vijayawada,
- 21. Chief Engineer/Zone/APTRANSCO/Visakhapatnam.
- 22. Superintending Engineer//PM-I/400kV/APTRANSCO/ Vidyut Soudha/Hyderabad,
- 23. Superintending Engineer/PM-II/400kV /APTRANSCO/ VS/Hyderabad,
- 24. Superintending Engineer/400kV L&SS/Mint compound/Hyderabad,
- 25. Superintending Engineer/400kV L&SS/ Vijayawada,
- 26. Company Secretary/APTRANSCO/ Vidyut Soudha/Hyderabad,
- 27. Estate Officer/APTRANSCO/ Vidyut Soudha/Hyderabad,
- 28. Central Record Section 2 copies.

Chief Engineer/Commi & RAC TSTRANSCO, Vidyut Soudha. Hyderabad - 500 082. Annexure to T.O.O.(CE-Construction-400kV -II) Ms.No.01, dt:17.01.2014.

Abstract Estimate: Erection of 400/220/132kV Suryapet substation, in Nalgonda District and connected network under transmission system improvement on stand alone basis

SI. No.	Description of Line/ Substation		/Length/ bays	Amount in Rs.Lakhs
A:	400kV Transmission System:			
1	400/220/132 kV Suryapet Substation	2x315 & 2x100	MVA	
2	400kV Bay Extensions (Quad) at Shankarapalli Substation	2	Nos.	13140.84
3	LILO of one circuit of 400kV VTS – Malkram Dc line to the proposed 400/220/132kV Suryapet Substation	5	km	880.00
4	400kV Quad DC line from Proposed 400/220kV Kamavarapukota SS to Proposed 400/220/132kV Suryapet SS	212	km	56702.33
5	400kV Quad DC line Proposed 400/220/132kV Suryapet SS to existing 400/220kV Shankarapalli SS	240	km	56744.35
	Sub-Total:			127467.52
B:	220kV Transmission System:			
	220 kV Lines:			
1	LILO of one Circuit of Chillakallu – Narkatpally DC line to the proposed 400/220/132kV Suryapet Substation	21	km	1,466.64
2	220kV DC Moose line to make LILO of (ckt-I&II) of 220kV Miryalaguda – Khammam at the proposed 400/220/132kV Suryapet SS	30	km	4190.40
	Sub-Total:			5,657.04

Chief Engineer/Commit & RAO TOTPALEGID, Webut Sauchin, Rydgrahad + 500 082. :: 5 ::

C:	132 kV Transmission System:			
1	132kV lines:			
(i)	Proposed 400/220/132kV Suryapet Substation to 132kV existing Suryapet Substation 132 kV DC line	7	km	309.19
(ii)	Proposed 400/220/132kV Suryapet Substation to 132kV existing Shaligowraram Substation 132 kV DC/SC line	35	km	1282,40
iii)	Proposed 400/220/132kV Suryapet Substation to 132kV existing Thungathurthy Substation 132 kV DC/SC line	30	km	1099.20
2	132kV Bay Extensions:			
(i)	132 kV Bay Extensions at Suryapet 132 kV SS	2	Nos.	132.8
(ii)	132 kV Bay Extensions at Shalogowraram132 kV SS	1	No.	66.4
(iii)	132 kV Bay Extensions at Thungathurthy 132 kV SS	1	No.	66.4
	Sub-Total:			2956.39
D:	Communication Equipment (approx.):			
(i)	400kV Works			
(ii)	220kV Works	L	s	1500.00
(iii)	132kV Works	L	S	
	Total (A+B+C+D):			137,580.95
E)	Special T & P @ 1%:			1,375.81
	Total (A+B+C+D) :			138,956.76
F)	Contingencies (3%):			4,168.70
	Total including contingencies :			143,125.46
G)	Estt. and other charges @ 10.75% :			15,385.99
	Grand Total :			158,511.45
	or Say (Rs. in Crores) ::			1,585.11
	Interest During Construction (Rs. in Crores) :			172.25
	Total (including IDC) - (Rs. in Crores) :			1,757.36

Chlet Enginear/Commi & RAC TSTRANSCIO, Vidyat Soucha, NySyahad - 800 082.



HAPEL Tipo. (ct - construction/Acopy) Ms. No. 285,

RURAL ELECTRIFICATION CORPORATION LIMITED

dated: 27/12.2012

(A Government of India Enterprise)

Registered Office: Core - 4, SCOPE Complex, 7, Lodi Road, New Delhi - 110 003. Tel.: 24367147 Fax: 24368554E-Mail: recitd@nda.vsnl.net.in Gram: RECTRIC

Project Office, NPA Post, Sivarampally, Hyderabad-500 052 Tel: 64583563, 64583569, Fax: 24014235 E-Mail-reclpohyd@yahoo.com

No.REC/T&D/P:SI(Transmission)/Sanctn Lr/14-15/ %%

Dated: 01-05-2014

The Chairman and Managing Director

APTRANSCO

Vidyut Soudha

Hyflerabad

Sub.: Sanction letter for financial assistance of REC under Transmission category

(sub category: P:SI(Transmission)

Ref: APTRANSCO Application for Financial Assistance vide Letter No FA&CCA(CF)/Dy.CCA(A/Cs)/ SAO(L)/ D.No 217/13 dated 11-02-2014

Dear Sir.

Please refer to your above cited Loan Application for financial assistance from Rural Electrification Corporation Ltd (REC), to finance/ part finance the proposed scheme for erection of 400 /220/132 KV Survapet sub-station 400KV D/C Line from proposed survapet Sub-station to Kamavarapukota & Shankarpalli Sub-station, 132 KV D/C lin from proposed Survapet sub-station to existing Survapet, Shaligoveraram & Thungathurthy Sub-station and LILO of 400 KV and 220 KV Lines as a part of Power Evacuation scheme from M/s Hinduja National Power Corporation Ltd 1040 MW Power Plant,

The proposals have been considered and REC is agreeable to grant APTRANSCO ("the Borrower")

Rupee Term Loan Assistance (the "RTL") with details of the scheme(s) are as follows

CONTRACTOR OF THE PARTY OF THE	SEPTEMBET CO.		or a second	CONTRACTOR AND ADDRESS.	- Semente(S) th	C BN TOHOW	K.	
Name of scheme	District	Code No. (AP- TD- TRM- 001- 2014-)	Project Cost excluding IDC (Rs lakhs)	IDC*, if any	Project cost including. IDC	Promoters contributi on (Equity componen 1) (10%)	Loss Sanotd,# (Rs.lnkhs) (90% of Project cost.)	Extent of financing (% of lean to cost)
Scheme for erection of 400/220/132 KV Suryespet aub-station, 400KV DKC line from proposed suryespet Sub-statio to Komewaragnakota & Shankarpatti Sub-station. 132 KV D/C linfrom proposed Suryespet sub-station to existing Suryespet, Shadispowereous & Thougastweethy Sub-station and LiLO of 400 KV and 220 KV Lines as a part of Power Everenation scheme from Mis-Hindayo National Course Corporation Lial Hild MW Pawer Pion.	Nalgonda, Rangared dy,Kham main and West Godavari	8267	157589,77	Dy. CO AAO Peshi SAO (B SAO (B SAO (B	PA&CCA(000	157243,19	90
Total			157589.77	17124.89	174714.66	17471.47	157243.19	

Loan amount is restricted to 90% of the scheme cost including IDC, as the security is proposed by way of hypothecation of future assets.

*IDC will be payable as per actual.

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The aforesaid term loan is subject to the following pre-disbursement condition and conditions as indicated below:

a) Pre-Disbursement Condition;

- The disbursement against the elements(lines, substation etc.) shall be made only after the Regulatory Commission approves the expenditure for that element.
- The Utility shall appraise REC the status of progress of associated Generating Stations with identified milestones and their commissioning schedule, vis-à-vis master network of transmission project indicating all critical milestones.

b) Other conditions proposed:

- The utility will obtain final stage forest clearances, if applicable, within 30 months from the date of first disbursement or till the disbursement of 75% of loan amount, whichever is earlier.
- ii) The utility has to obtain NOC from Airport Authority/Ministry of Defence, if applicable, within 30 months from the date of first disbursement or till the disbursement of 75% of loan amount, whichever is earlier.
- iii) The utility has to obtain clearance/approvals for railway crossings, river/canal crossings, highway crossings and power line crossing or any other clearances/approvals, wherever applicable, within 30 months from the date of first disbursement or till disbursement of 75% of loan amount, whichever is earlier.
- iv) The utility also shall ensure through regular monitoring of progress of associated upcoming Generating stations and planed completion of transmission project to avoid both power evacuation constraints vis-a-vis creation of standard assets. A quarterly monitoring report in this regard shall be submitted to REC.
- The aforesaid term loan is also subject to the general terms and conditions set out in Annexure-1.
 Details of projects sanctioned are enclosed at Annexure A, B and C. The loan would be further subject to the conditions as set out in the Rupee Term Loan Agreement (RTLA) to be executed between the borrower and REC.
- 3. The sanction letter is sent to you in duplicate and in case the above terms and conditions are acceptable to you, it is requested to return one copy of the same duly signed as token of acceptance of the terms and conditions of sanction with in a period of thirty days from the date of receipt of this letter.
- 4. Borrower shall communicate to REC within 30 days from the date of receipt of this letter that the terms and conditions setout herein are acceptable to it. Unless the loan agreement and other documents relating to the above assistance are executed by the borrower in such form as may be required by REC with in three months from the date of this letter, or within such further time as may be allowed by REC in its absolute discretion, this communication should not be any way be construed as giving rise to any binding obligation on the part of REC.
- All the Annexures are deemed to be part of this letter.

You are requested to acknowledge the receipt of this letter.

Yours faithfully,

(N. Venkatesan)

Chief Project Manager

Enclosed ; n/n

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- ii. III.
- Principal Secretary, Department of Energy, Government of Andhra
 Pradesh AP State Secretariat, Hyderahad For kind information please.
 The Director (Projects), APTRANSCO, Vidyut Soudha, Hyderahad
 The Director (Pinance), APTRANSCO, Vidyut Soudha, Hyderahad
 The Chief Engineer (400KV-Construction-I) APTRANSCO, Vidyut Soudha, Hyderahad
 The Chief Engineer (400KV-Construction-II) APTRANSCO, Vidyut Soudha, Hyderahad iv.
- The FA&CCA(CF),APTRANSCO,Vidyut Soudha, Hyderabad GM (T&D) REC, New Delhi.
 Office Copy
 Loan Documentation copy and MI.
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- viii
- ix
- Scheme file

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Annexure-1 to letter Nodated	-
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General Terms and Conditions for T&D loans to State Sector Borrowers

SI. No	Name of scheme	District	Code Ne. (AP- TD- TRM- 001- 2014-)	Project Cost excluding IDC (Rs. lakhn)	IDC*, if	Project cost including, IDC	Promoters contribution (Equity component) (10%)	Losn Sencid.# (Rs.lakhs) (90% of Project cost)	Extent of financing (% of loan to cost)
1	Scheme for erection of 400 /220/132 KV Suryepet sub-station, 400KV D/C Line from proposed sieryapet Substatio to Kamawarapokota & Shankarpalli Substation, 132 KV D/C lin from proposed Sieryapet substation to existing Suryapet, Shallgowaram & Thungathurthy Substation and LILO of 400 KV and 220 KV Lines as a part of Power Evacuation schame from Mis Hinthyla National Power Corporation Ltd 1040 MW Pawer Plant.	Nalgonda, Rangared dy,Kham mam and West Godavasi	8267	157589,77	17124.89	174714.66	17471.47	157243,19	90
	FoCts			157589.77	17124.89	174714.66	17471.47	157243.19	

- 2. Validity of sanction: The sanction shall be valid for a period of three months from the date of issue of sanction letter, unless the loan agreement is executed to the satisfaction of the Rural Electrification Corporation Ltd (referred hereinafter as "REC" or "the Lender" or "the Corporation") within three months after complying with the Terms & Conditions as mentioned hereunder. However, the lender can extend validity period at its sole discretion on being satisfied for the reasons of delay furnished by the Borrower.
- Loan Agreement: The Borrower shall execute within three months time or such extended period, as
 the case may be, a Loan Agreement freferred hereinafter as "Rupee Term Loan Agreement" or
 "RTLA"), in the form prescribed by the Lender for this purpose.
- 4. Other Agreements: The Borrower shall also execute such other agreements and documents as may be prescribed for the purpose by the Corporation and as may be necessary in terms of security provided by them, namely, Hypothecation Deed, Default escrow agreement etc., and the security/charge so created has to be registered with the Registrar of Companies (ROC), as applicable.
- 5. Scheme Implementation and Loan Disbursement Period:
- a) The Borrower shall complete the work relating to the scheme(s) within the implementation period of 36 months from the date of release of 1" instalment. This completion date (ending on date of first disbursement plus implementation period) would be the Scheduled Completion Date. Unless the Lender agrees otherwise, the Borrower's right to make drawls from the Rupee Term Loan shall cease at end of scheme period by default. However, reimbursement claims submitted within a period of one month after the scheme period (hereinafter referred to as Availability period) will be considered for release.

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- b) The Lender may agree to the request of the Borrower to extend the period of disbursement of loan and implementation of the project beyond the Scheduled Completion date. This date would be the Revised Completion Date after the extension is approved by REC. However the period of moratorium and repayment of loan will continue to remain the same as per original terms of sanction and will not be affected by the continuation/ extension in the period of disbursement of loans and implementation of the project.
- e) Works completed within one year prior to issue of sanction letter is also admissible for reimbursement under the scheme.

Pre Commitment Conditions;

The Borrower shall furnish the following certificates/undertakings at the time of execution of RTLA:

- "That the Ioan applied for and being granted by the Lender to the Borrower is within the borrowing powers of the Borrower in accordance with the laws, by-laws and rules applicable to it and all formalities required by the laws/by laws regulating the work and conduct of the Borrower in respect of such borrowing have been fully complied with; and shall be used exclusively for the purpose of project stated above for which this Rupee Loan has been sanctioned by the Lender"
- That all the works covered under this scheme are being financed by REC and certificate from the authorized Officer of the Borrower that the works for which the claims would be lodged are not being proposed to be financed from any other loan from REC or from any other funding agencies, including State Government.
- That the assets created under the scheme, shall remain hypothecated to REC as per terms of agreement (wherever applicable)
- d) That Borrower is not a defaulter on its loans to REC.
- e) That the Borrower shall raise and proportionately invest equity portion (where applicable) along with REC loan & that they shall not utilize it for repayment/settlement of outstanding liabilities.
- f) that the Borrower will submit the implementation schedule and draw down schedule, when asked for,
- g) that the Borrower shall obtain all statutory and non-statutory clearances as applicable for implementation of the project.
- h) that the Borrower will create security as acceptable to REC.
- i) that only new and unused equipment will be used for the project;
- j) that in case of works involving replacement/augmentation of assets, the replaced assets are not already Hypothecated to REC or any other lenders.

7. Pre Disbursement and Disbursement conditions

Appendix to this Annexure enclosed,

8. Draw down schedule, Upfront fee and Commitment charges

- As per REC policy, State/Central Sector Borrowers are not required to pay commitment charges or upfront fee for loans sanctioned upto Rs. 500 cr.
- For projects with loan more than Rs.500 crore, the state sector Borrowers shall have the option to pay either upfront fee or commitment charges under due intimation to REC before signing of RTLA which shall be final, binding and irrevocable. This may be subject to change and shall be applicable as per REC policy from time to time.

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c) As per the option exercised by the Borrower at the time of signing RTLA:

Commitment Charges: The Borrower shall furnish to the Lender at the time of signing of RTLA, a quarter-wise schedule of drawl of this loan, the year being the financial year commencing April 1st and ending March 31st and the quarters being three months period beginning from 1st April, 1st July, 1st October and 1st January of each year. The Borrower will be required to draw the entire amount of committed funds in the respective quarters cumulatively. In case the Borrower is unable to draw the committed funds cumulatively in the scheduled quarter, the Lender will recover commitment charges on the un-drawn amount of previous quarter from the first day of following quarter till the date of actual date of drawl at the rate as per prevailing loan policy circular/REC guidelines. Present rate is 0.25%, p.a. The commitment charges will be payable quarterly on 15th April, 15th July, 15th October and 15th January every year after execution of loan documents till the date of drawl of loan by the Borrower.

or

Upfront fee at the rate as per REC's prevailing loss policy circular/guidelines of the loss amount shall be levied. Present rate is 0.1%;

d) The Borrowers shall be allowed prospective revision of drawl schedule, once for every Financial Year during the Availability period, provided the request is received before 15th March of the previous FY,

9. Interest Rates & Interest Reset Period:

- a) The interest shall be charged on the loan as per the prevailing category of the utility/Borrower, at the rate prevailing on the date of each disbursement, subject to interest reset as per REC's latest loan policy circular. The present rate of interest applicable to "A+" category borrowers is as under:
 - (i) With interest reset option after three years @ 12.00% per annum OR
 - (ii) With interest reset option after Ten years @ 12.25% per annum

The interest rates charged are as per categorization/grading of the utility. The internal categorisation mechanism of REC grades the state sector utilities as A+, A, B or C. The published loan policy circular defines the interest rates applicable for various grades at any point of time. The categorisation/grading mechanism is done on the basis of the published annual reports, information provided by the utility, information collected by REC on various financial, regulatory and technical aspects.

- b) The Interest shall be payable monthly on the last day of each month by the borrower till the full Loan amount along with all other dues are paid to the Lender. There is no moratorium for payment of interest.
- c) Interest on amounts outstanding (including overdue and penal interest) under the facility shall accrue from day to day and be calculated on the basis of the actual number of days elapsed on a year of 365 (three hundred sixty five) days.
- d) Notwithstanding anything stated hereinbefore, it will be open to the Lender to periodically reduce or calcance the rate of interest in respect of loan instalments not disbursed up to the date of such revision. The revision in the rate of interest shall take effect from such date as may be notified by the Lender in this behalf.

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e) REC has the right to reset the interest rate on each tranche of disbursement on the date occurring immediately after the expiry of 3/10 years (as opted by the Borrower) from the date of disbursement of the tranche and on the expiry of every 3/10 years thereafter, till the loan is fully repaid. The Borrower shall intimate its option for reset period prior to execution of RTLA and the option once exercised shall be final and binding and cannot be modified at a later stage. In case no option is received, it shall be deemed that the Borrower has opted for three years reset.

10. Loan Repayment/ Moratorium Period

- a. The period of moratorium for repayment of principal shall be 3 years from the date of disbursement of first instalment of loan but the entire loan shall be repaid by the Borrower within a period of 13 years from the date of disbursement of the first instalment of loan. The principal instalment is payable in equal monthly instalments on the last day of each month.
- b. The Borrower shall pay interest as indicated in clause (9) above during the period of moratorium. The repayment of principal thereafter will be effected on the basis of equal monthly instalments and interest shall be calculated at the rates prescribed in clause (9) above on the amount outstanding.
- c. It shall be endeavour of the Borrower to ensure the realization of all payments due from them at the designated bank branch at New Delhi or other places as may be directed by the Lender on the dates on which same falls due or immediately preceding working day if such due date is a bank holiday at the recipient branch.
- d. It shall be endeavour of the Borrower to ensure the realization of all payments due from them at the designated bank branch at New Delhi or other places as may be directed by the Lender by the dates on which the same falls due. In case any due date of payment falls on a business holiday (at REC's Bank at New Delhi), Borrower may pay same on the succeeding business day. However, for the purpose of future interest calculation, credit for principal repayment shall be given only on the date of actual receipt or due date, whichever is later.

11. Interest and Liquidated damages on default amount

- a) In case of default in payment of any repayment instalment or payment of interest, fee and other monies on their respective due dates (the defaulted amount), the Borrower shall pay to the lender (for the period of default) interest on the defaulted amounts at the applicable interest rates and liquidated damages on the default amount prescribed under the REC policy (which is presently 2% p.a), both compounded on quarterly basis.
- b) Further in the event of default in payment of interest and/or repayment of principal by the Borrower, subsequent receipts shall be appropriated as per the Accounting Policy of the Lender.
- c) Further in case of such defaults, Lender shall have absolute rights to either enforce the entire or any part of securities created under the RTLA and/or to take possession of charged assets including entire or any part of plant/project and sell, transfer or dispose otherwise as the Lender may deem fit beside of taking necessary legal recourse as may be available to the Lender.
- d) The occurrence of default shall be judged during any stage of subsistence of RTLA by the lender at its sole discretion which shall be final.
- e) The Lender shall have right to call for premature repayment of entire or any part of outstanding Loan amount at any time during the currency of the RTL without assigning any reason, if Lender is satisfied that any of terms and conditions of this RTLA has been deviated/violated materially, or the loan amount has been used for the purpose other than the specified purpose, or no work is taken up in the project within one year after drawal of first instalment (unless otherwise approved for revival), or viability of the Project, financial strength of Promoters or the Security created herein has deteriorated substantially. And in such an event, the entire outstanding loan shall be immediately payable by the Borrower to the Lender along-with outstanding interest and applicable liquidated damages shall also be payable from the original date of disbursement of the loan.

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Chief Engineer/Domail & RAC TSTFANSCO, Virgit Sisselles, Hyderphod - 000 088.

f) Notwithstanding anything stated above, the Lender reserves the right to cancel the commitments i.e sanction loan amount or stand by facilities and credit lines, either fully or partially, unconditionally without prior notice at anytime.

12. Prepayment:

The Borrower shall not prepay the outstanding amount of the Rupce Term Loan in full or in part unless the Lender gives its explicit consent for such repayment. Prepayment of the Rupee Term Loan shall be at the sole discretion and on the terms and conditions (including prepayment premium) as may be stated by the Lender on such request. During the period of consideration of the Borrower's request/application for prepayment, the Borrower shall continue to service the loan/pay interest at the applicable rates.

13. Service Tax, levies & duties and Other Costs & Expenses

All rates of interest / fees and other charges mentioned in this agreement are exclusive of service tax and / or any such other levies/ duties. Such service tax/ other levies/ duties, if any applicable, including stamp duties, court fee, professional fees, cost and charges for counsel/ advocate's fees for drafting, vetting of loan documents and rendering opinions, advice, creation of security, investigation of title, protection of the Lender's interests and expenses and fees incurred/ borne by the Lender for the monitoring and inspection of the project implementation/ operation by its representative and any other charges or surcharges as levied by the Government or any other statutory authorities on any Rupee Term payment under the loan or any other activity directly applicable to the Term Loan shall be payable by the Borrower to the Lender in addition to and in the manner of the Loan Repayment / Interest Payments.

The Borrower shall keep indemnified the Lender, at all times during the currency of the RTL, of any loss/ costs/ expenses suffered due to the conduct of Borrower or out of execution of intent RTLA or collection, preservation, disposing or otherwise dealing the offered Securities as per provisions herein.

14. Security:

A. For loans to borrowers OTHER THAN State Governments and power departments under state Option VII:

Mortgage/Hypothecation of future assets so created out of loan amount sanctioned for the project subject to the value being 110% of the loan amount so sanctioned. The security by way of creation of charge on FUTURE ASSETS ONLY shall be accepted subject to the loan amount being restricted to 90% of the project cost,

- If at any time during the currency of RTL, the Lender is of the opinion that the security provided by the Borrower has become inadequate to cover the balance of the loan then outstanding, the Borrower shall provide and furnish to the Lender additional security as may be acceptable to the Lender to cover such
- b) In case of privatization of the Borrower, the entire dues of REC to be repaid in full or secured to the satisfaction of REC in the manner that REC would require.

In case of charge on movable and immovable assets of the Borrower:

(i) First charge/pari-passu charge on all movable & immovable assets (both present & future) of the project shall be created in favour of REC. Wherever reimbursement against land is taken from REC, it is subject to equitable mortgage irrespective of the option available in REC guidelines. To make such charge meaningful, appropriate provision will be made to the satisfaction of REC, to allow REC the right to inspect, take possession thereof and sell the same in accordance with the provisions of the Securitization Act. Page 8 of 13

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Project assets to be created shall be Mortgaged/ hypothecated/Assigned in favour of REC, and (iii) further, BORROWER during the pendency of REC loan, shall not mortgage/hypothecate these assets in favour of any institution other then REC without prior written permission from

It shall be endeavour for the Borrower to ensure registration of charge with the Registrar of (iii) Companies (ROC), and/or, with any other statutory authority in this regard, as the cuse may be, and shall furnish the necessary details and testimonials in this regard, before as well as after creation of securities, as required herein, and any further registration of charges with ROC/other statutory authorities shall be done only with prior approval of the Lender.

Other Conditions

Payment Security:

- a) As payment security during the construction stage and during the loan repayment period, Borrower shall make operational a default Escrow arrangement to the satisfaction of REC.
- b) The escrow account to be opened will be exclusively in favour of the lender for the due amount.

16. Project Progress Reports & Inspection

The Borrower should furnish quarterly progress report and provide other information on the progress of work, including photographs if any, of the project in the prescribed stages of project implementation/

It will be open to the Lender to arrange for inspection/monitoring of the implementation of the project at all stages in respect of such matters as may be considered necessary and expedient either by itself or by monitoring agencies including institutions/individuals as may be appointed by the Lender. In particular, the inspection/monitoring envisaged will include the following:

Arrangements for organization, materials/equipment purchased, according to specifications and verification of quality of materials/equipment.

ii) Proper modification / improvements of the Transmission / Distribution network, inventory of the material utilized, submission of reports on pre and post efficiency measurements.

- The officers/staff/consultants deputed by the Lender for the inspection/monitoring of matters relating to the project shall have access to such books and records of the Borrower as may be deemed necessary by them. The Borrower shall also furnish such reports on its working either in general or in specific relating to the Project financed by the Lender in the manner prescribed by the Lender from time to time.
- The Borrower will carry out and comply with such further changes, modifications, improvements and/or guidelines as may be given by the Lender in the course of or on the basis of inspections so undertaken for the purpose of more effective and proper implementation of the project.
- The Borrower will furnish to the Lender such reports, returns, information, statements etc. at such intervals and in such manner as may be prescribed by the Lender from time to time in regard to
- The Borrower will permit and depute its officers and other employees as may be considered necessary by the Lender for the purpose of providing training from time to time in the procedures to be followed for making modifications/improvements in the project as may be considered relevant by the Londer,

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Chief Engineer/Commit & RAC TRITRANSCO, Vidyut Sancha. Nydenhad - 500 000



17. Loan Assignment

The Borrower agrees that the Lender shall be fully empowered to assign the debt and the benefit of this loan, guarantees and the securities to be created for the loans to the Government of India, RBI or any other institution as security of any refinance/arrangement which may be worked out by the Lender with such organization in respect of the loan and the Borrower shall, as and when required by the Lender, join in doing and executing all such acts, deeds, documents and assurances as the Lender may require for effectuation of such assignment.

18.Project Clearances

The Borrower shall obtain all applicable statutory and other clearances from the Central/State Govt. and all other agencies required for implementation of the Project and installation of plant and systems.

19. Other Terms & Conditions

The Borrower shall always ensure that:

- a) REC reserves the right to specify additional requirement by REC, in security package if any, in terms & conditions and loan documents.
- b) BORROWER shall keep REC informed about any happening/events which shall have a substantial effect on the business of the Borrower & shall provide necessary information, in case of any new project/expansion of existing project taken up during the currency of REC loan. REC shall have the right to cancel/recall the entire loan in case of misrepresentation/ suppression of information, if any noticed at any stage.
- c) In case the project is abandoned/stuck-up by any of the reason, BORROWER shall be bound to repay its entire outstanding loan amount immediately.
- 4) BORROWER not to transfer or abandon the project at any stage or in any manner whatsoever without prior written consent of REC.
- BORROWER will be required to display board at the site showing that the project is financed by REC.
- No dividend would be declared by BORROWER if there is any default to the REC's loan.
- 21. Mnintenance of Books of Accounts and Audit thereof

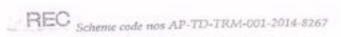
The Borrower shall maintain all the time during subsistence of RTLA, proper accounts and other records and prepare annual financial statements and get them audited as are required by Indian Companies Act or other relevant law and shall furnish to the lender the Unaudited Financial Statements within 3 months and Audited Financial Statements within 7 months from the close of relevant accounting years.

22.Demand Notice

The Lender shall send demand notice of the amount falling due to be paid by the Borrower to the Lender at least 7 business days in advance to the Due Dates of such payments solely for the convenience of the Borrower. However, any delay or absence of such demand notices shall not absolve the Borrower of their obligations under RTLA.

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23 REC's liability Rested

Notwithstanding to above and hereafter, the REC shall not be liable for any direct or indirect loss/ damage/ injury to the property, manpower or business of the Borrower or their affiliates caused due to the act, negligence, misconduct or omission of the Lender or its representative(s) except as defined herein or by virtue of any prevalent law.

24.Interpretation

The decision of Chairman & Managing Director of REC Ltd. in all matters including interpretation of any clause relating to the RTLA shall be final and binding on the Borrower.

Chief Engineer/Commt & RAO TOTPANISCO, Vidyut Soudrie, Hyderabad + 500 052.

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Conditions to be fulfilled before start of disbursement

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- (1) Creation of security as per REC policy and execution of the prescribed loan and security
- fulfilment/compliance of all terms and conditions for such disbursement as per the clauses of the (11)
- Acquisition of land for sub stations for which disbursement of loan against the sub station is (III) requested (wherever applicable).

General Conditions for disbursement

- Mobilisation advance to the utility/borrower and advance to be paid to turnkey contractor will be (i) disbursed by REC only in case of availability of adequate upfront security (existing assets, Govt Guarantee (GG), Bank Guarantee (BG) etc) and on submission of audited invoice for such
- in case of advance payment, the extent of advance would be limited to: (11)

Loan amount more than Rs. 100 cr - upto 10% of loan amount

Loan amount more than Rs. 50 cr but is upto Rs. 100 cr - Upto 15% of the loan amount b)

Loan amount upto Rs. 50 cr - Upto 20% of loan amount.

- Any disbursements by REC against the project shall be on pro rata reimbursement basis for (111) completed works/material supplied/erection work completed (as applicable) based on the progress report duly approved and signed by the borrower or based on bills paid to contractor or invoice value for equipment/material, as applicable,
- In case of reimbursement based on progress report submitted by the utility (i.e reimbursement (IV) based on cost data approved at sanction), claims can also be admitted against receipt of material at site, only for those items where separate cost of material is identifiable and if the Claim is supported by a certificate from the utility for a) receipt of the material at site, (b) quantum of supply of material, c) rate and d) that no other finance has been obtained for the item from other Banks/Fls. Claim admitted and released on this basis shall be deducted from the actual claim after total works of each item is completed and becomes payable as per reimbursement norms of
- Direct payment to contractors/suppliers is permissible, if desired by the utility, as per prevailing (v) policy of REC from time to time.
- In case the award cost of the project, together with any establishment/administration/other costs (vi) as permitted by the regulator for capitalization against the project, is less than the sanctioned project cost, REC's reimbursement would be limited to such actual award cost plus establishment/administration/other costs as permitted by the regulator for capitalization against the project (needs to be substantiated by suitable approval for extent of such overheads by Director/Board of utility/Borrower). In case of awarded cost is more than the sanction cost, if the utility requests for reimbursement on the higher cost, decision will be taken at the time depending on the merits of the case. In case of reduced award cost, the milestones in monitoring guidelines will be applicable with respect to the final award cost
- In case the specific scheme cost is subsequently reduced by the regulator, the utility shall (VIII) inform REC and the loan by REC would be accordingly modified/reduced. In case the scheme cost approved by the regulator is more than the scheme cost sanctioned, and if the Attinhand

Page 12 of 13

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Scheme code no. AP-TD TRM 001-2014-876.

unitry requests for caldiforms have character will be because a recovery enquenting one time enumer or the case.

- Physical progress made against the scheme within one year prior to actual sanction, could be (Vitti) considered as permissible expenditure for reimbursement. Claims submitted within a period of one month after the completion of schome period, for made short will in the achieve period will be considered for release. In this case, advantar completion parties in the scheme imprementation period sanctioned, reckened from the date of first dispursement.
- in case of SPA schemos, the fist installment of loan will be judicated on closure of operations fin) under ongoing scheme in that area.
- The RAPDRP projects will not be eligible for first instalment as artvance as Got loan of 15% is (x) provided upfront to the utility. REC shall release the funds against the 75% of the counterpart funding, based on the progress submitted by the utility, only after the expenditure against the project has exceeded 15% of the cost of the project. The utility shall certify that the 15% advance disbursed by GOI has been utilized only for that project for which it was given, at the time of
- For R-APDRP Projects, The period for completion of the project, loan closing date and date for Cicli admissibility of claims for expenditure shall be as per PFC/Gol sanction.
- For APDRP schemes, In case the scheme cost is revised subsequently by the Steering (XN) Committee, the utility would furnish the defails thereof, in case of reduction in scheme cost approved by the Steering Committee vis-à-vis the original cost, the loan would be accordingly reduced to 75% of the revised cost. In case of increase in the scheme cost approved by the Steering Committee, and if the utility requests for additional loan, decision will be taken at that time depending on the merits of the case.
- For Bulk Loan Schemes, the release would be up to 90% of the invoice value of the (xiii) equipment/material supplied, after pro-rate adjustment of initial advance if any. Each claim shall
 - The original invoice, along with a copy of the invoice for each consignment, should be attached with the claim duty approved and signed by the authorised officer of the Division/Circle of the Board/utility. The original invoice will be returned to the borrower after the following certificate is recorded prominently on each page of the same by the concerned CPM/ZM:

"All the material /equipment, under this invoice are being linanced by the REC under scheme code no.

- A certificate from the authorised officer of the Division/ Circle of the Utility/Board that the equipment/material have been duly received in good order and have been issued or under
- A certificate from the authorised officer of the borrower that the equipment/material, for which the claim is being lodged, have not been or are not proposed to be financed from any other loan from REC or any other funding agency, including the State Govt.
- 10% of the retained individual invoice value, would be released after the borrower certifies that equipment/material has actually been installed in the field.

Monitoring

Monitoring of all projects shall be as per the applicable monitoring guidelines of REC. Bulk Loan

Page 13 of 13

Other Engineer/Commit & RAC TSTRANSCO, Vidjut Soudhill. Hyderanad - 500 082.

Catagorie	!!!
**************************************	PiSt (Transmiss
State:	Andhen Bendank
-	PROPERTY CANCELLY
CTILITY:	APTRANSCO

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Name of the PoSI scheme	Name of State	Scheme Code no,	Project Cost Exel IDC (Re. In Lakhs)	IDC+ Rs. In Lakha	Project Cost Incl. IDC (Rt. In Lukha)	Loss Amount (Re, in Lubbs)	Project Perject	Basel Basel
C4	10	4	AD.	9	g-		d	0
Scheme for crection of 400/220/132 kV Surympet sub-station, 400 KV D/C line from Proposed Surympet SS to Kennevarapuloita & Shankurpalis SS, 132 KV D/C line from Proposed Surympet SS to existing Suryepet, Shallgoventan & Thungsthurthy SS and LELO of 400KV and 220 KV lines.	Andhra. Pradesh	6267	157569 77	17124.89	17124.89 174714.66	55 77, 52		3

*Loan amt, is restricted to 90% of scheme cost, as the security is proposed by way of hypothecation of fature assets. # IDC will be payable as per actuals.

Note: Terms and Conditions for the sanction shall be as per the annexure attached with the Sanction letter issued by the SEC Project office

Cash Englass/Commil & RAC TETRANSCO, Vicyal Southa, Hydruthad - 500 1982.

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			j		5 ;	-	
Permit ACSE and 1900 - 1000 the transfer of 1900 the 1900 th	ACO/22 1, 12 to Beyapet to E-staure, no. ACO/22 1, 12 to Beyapet to E-staure, no. ACO/2 line lim Proposed Sur suset 35 to Academya, it 55, 133 KV D/C instance from Proposed Surgapet 35 to consider Surgapet Surg			13	Name of the Scheme		
	Andhr: Pradesh			w	State		
	55 52 55 7		1	-	Code No.		
	p=0		0	п	0 N		T
	Suryapet		C		Name of Sub Station	New Substation	
	400/ 220/		-	2	NA NA	bstatio	Jower
	20 + 20 E		00		YAK	, p	Power Sub Stations Involved
	(1)		40		tit o	-	logs I
	17		10		Name of Sub Statio	Capacity Addition / Augmentation	paylore
	4.1		11		ZV.	Addit	
	F.5		12	MVA	AVA A	on /	
	452		13	Km	Hotel Hotel		
	102	1	14	Kan	I32 KV ILse		
	Oi.	h	'n	Ken	AM 400		
	21	to	5	H H	220 XV LILO		1
	ы	17	1	No	KV Hay Extn		
	+	9-6		N 0	Exts		

Sanction Parameters for P:Si schemes P:Si (Transmission) Audhra Prudesh APTRANSCO

Annexure B 2014-15

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Control of Comments of the Com

State:

Andhra Pradesh

So being the election of 1887/220/132 at Amazaper soft finitum, 199 EV D/C line from Proposed Suryaper 55 to Encounterpotent & Shankarpelli 85, 172 KV D/C line from Proposed Suryaper 55 to existing Suryaper, Shallgowranam & Thungethurthy SS and LILO of 4006KV and 220 KV lines.

III.Po.	Particulars		1	Cost per	(Su in Laking
		Unit	'Pty	that	émount
A	400 ITV works		15.		0.365000
1	400/220/132 hV Substatum at Suryspet (1s115 / 2x100)	Nos	1	10568.30	10668.3
2	400 KV bay extension at Shankarpallt 55	Nois	2	830,29	1072.5
3	LEC S/C of 400 kV VTS-Malbaram D/C line to Proposed Suryapet SS	Hema	5	176 00	880.0
4	400 KV Quart D/C line from Kammonapolova 55 to Propodul Disconnet SEL	Rims	219	457 (4)	50702.0
5	400 KV Quad D/C line from Proposed Survaget SS to Shankurpath SS	Kena	240	235.43	56744.3
B	220 KV works				
1	LRO S/C of 220 KV Chillakalle Narkatpally D/C line of Proposed Suryapet SS	Kms	21	69.84	1466.64
2	LLO of 220 KV Miryalaguda-Khazumani line at Proposed Suryapet SS (2 x F/C)	Kaus	2x30	69.84	4190.46
C	132 KV works				
1	132 KV D/C line from Exinting Survapet SS to Proposed Survapet SS	Ems	7	44.17	309.16
2	132 KV S/C line on D/C tower from Shaligowaram SS to Proposed Suryapet SS	Kenn	35	36.64	1282.40
3	132 KV 5/C line on D/C tower from Thungsthurthy SS to Proposed Suryapet SS	Kms	30	36,64	1099.20
4	132 KV bay extension at 132 KV Suryapet SS	Non	2	66.40	100.00
5	133 KV bay extension at 132 KV Shaligowraram SS	Nos	-1	56.40	132.80
5	134 KV bay extension at 132 KV Thungathurthy SS	Nos	1	66.40	66.40
	Communication equipments	Lot	1	1500.00	1500.00
	Sub Total			1000 00	136780,98
	Special ThP*				1367.61
-	Sub Total				138148.79
	Contingencies (93%) Bub Total				4144.46
					142293.25
	Establishment & others (10.75%)				15296.52
	Total Project Cost (Excluding IDC)				157589,77
	Total Project Cost (Incl. IDC)		-		17124.89
	Total Losn Amount @ 90%				174714.66
	Administration with it much being and in-				157243.19

* Admissible only if each item and its cost is identified, as per REC's guidelines.

IDC will be payable as per actuals.

A. W. hour of

TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

Evacuation of Wind Power in Kadapa, Anantapur and Kurmool districts of Andhra Pradesh -Revised Administrative Approval - Accorded

T.O.O.(CE-Construction/400kV) Ms.No. 402,

dt: 25.03.2013

Ref :T.O.O.(CE-Construction/400kV) Ms.No. 248, Date: 15-11-2012.

PROCEEDINGS:

In the T.O.O. cited Administrative approval was accorded for the transmission scheme for "Evacuation of Wind Power in Kadapa, Anantapur and Kurnool districts of Andhra Pradesh" at an estimated cost of Rs.3033.69 Crore and Rs.324.05 Crore towards Interest During Construction (IDC). The total cost of the scheme including IDC is Rs.3357.74 Crore.

- 2. The Chief Engineer/Construction-II vide U.O.dated:04.12.2012 requested to arrange for according revised administrative approval, for construction of 400/220/132kV Substation at Jammalamadugu, Thalamanchiputnam (V) in Mylavaram (M) instead of 400/220kV Substation at Kondapuram and 220kV Substation at Jammalamadugu, to avoid submerging Gandikota Project (GNSS) and forest clearance and also vide U.O.dated:22.12.2012 requested to include 3 kV features at 2 Nos. 220kV Substations at Betameharla and Chakrayapet for Phase –I works of Wind Evacuation scheme.
- 3. The Chief Engineer/Power Systems vide U.O.dated:28.12.2012, informed that, APTRANSCO has approved for LILO of both circuits of 220kV Moose DC line proposed from 400kV Uravakonda SS to 220kV Kalyandurg SS at 220kV Borampalli SS and also approved to include LILO works under Phase-I works while calling tenders.
 - 4. After careful consideration, APTRANSCO accords revised administrative approval for the transmission scheme namely "Evacuation of Wind Power in Kadapa, Anantapur and Kurnool districts of Andhra Pradesh" at an estimated cost of Rs.3058.46 Crore and Rs.314.79 Crore towards Interest During Construction (IDC). The total cost of the scheme including IDC is Rs.3373.25 Crore, as per the Annexure -1, enclosed.

Chief Engineer/Commt & FIAC TSTRANSCO, Vidyut Southa. Hyderabad - 500 082.

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- The Chief Engineer/Construction/400 kV and the Chief Engineer/Construction-II, Vidyut Soudha, Hyderabad are here by authorized to take up the Phase –I works of the comprehensive scheme immediately, as per Annexure II, making necessary budget provision and funds tie up.
- 6. The Finance wing of APTRANSCO will be requested for funds tie up for the Phase –I works at an estimated cost of Rs.1954.63 Crores initially out of the estimated cost of Rs.3058.46 Crores and Interest During Construction of Rs.314.79 Crores (i.e. Rs.3373.25 Crores including IDC) for the Comprehensive Scheme.
- 7. In exercise of the powers conferred vide G.O.Ms.No.115, dated 07-10-2003 of Government of Andhra Pradesh, APTRANSCO or their authorized representatives shall have the powers for placing of the electric supply lines or electric plant for the transmission of electricity or for the purpose of telephonic or telegraphic communications necessary for the proper co-ordination of works that a telegraphic authority possesses under the provision of the Indian Telegraph Act, 1885 (Central Act-13 of 1885).
- This order is issued with the concurrence of the Director (Finance & Revenue) vide Fegd. No.963, dated:06.03.2013.

(BY ORDER AND IN THE NAME OF TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED)
Engl: Annexure 1&11

B.UMAKAR RAO DIRECTOR/ PROJECTS APTRANSCO

To

The Chief Engineer/ Construction/400kV/ Vidyut Soudha, Hyderebad The Chief Engineer/ Construction-II/ Vidyut Soudha, Hyderebad

// FORWARDED BY ORDER //

Divisional Engineer Construction/400kV

Contd_3

Chief Engineer/Commi & RAC TSTRANSCO, Vidyut Soudha. Hyderobad - 500 GAZ.

Copy to the :

- 1. The Chief Engineer/ Construction-I/APTRANSCO/ Vidyut Soudha, Hyderabad,
- 2. The Chief Engineer /Civil/APTRANSCO/ Vidyut Soudha/Hyderabad,
- 3. Chief Engineer/ Transmission/APTRANSCO/ Vidyut Soudha/Hyderabad,
- 4. Chief Engineer/ Telecom /APTRANSCO/ Vidyut Soudha/Hyderabad,
- 5. Executive Director/Plg, RAC &Reforms/APTRANSCO/idyut Soudha/Hyderabad,
- 6. Chief Engineer/Power Systems/APTRANSCO/Vidyut Soudha/Hyderabad,
- 7. Chief Engineer/SLDC/APTRANSCO/ Vidyut Soudha /Hyderabad,
- 8. Chief Engineer/Lift Irrigation/APTRANSCO/ Vidyut Soudha /Hyderabad,
- 9. Chief General Manager/HRD & Trg./ APTRANSCO/ Vidyut Soudha/Hyderabad,
- 10. FA & CCA (CF)/ APTRANSCO/ Vidyut Soudha/Hyderabad,
- 11. FA & CCA (A,E &R)/ APTRANSCO/ Vidyut Soudha/Hyderabad.
- 12. FA & CCA (TR)/ APTRANSCO/ Vidyut Soudha/Hyderabad,
- 13. P.S. to the Chairman & Managing Director/APTRANSCO/Vidyut Soudha/ Hyderabad,
- 14. P.S. to the Joint Managing Director (HRD, Comml., IPC ,RA &IT)/APTRANSCO/ VS/Hyd.,
- 15. P.S. to the Joint Managing Director (Vigilance & Security)/APTRANSCO/ VS/Hyd.,
- 16. P.S to the Joint Managing Director (Distribution)/APTRANSCO/VS/Hyderabad.
- . 17. P.S. to the Director (Finance & Revenue)/APTRANSCO/ Vidyut Soudha/ Hyderabad,
 - 18. P.S. to the Director (Projects)/ APTRANSCO/ Vidyut Soudha/Hyderabad, +
 - 19. P.S. to the Director (Grid Operation)/ APTRANSCO/ VS/Hyderabad,
 - P.S to the Director (Transmission)/ APTRANSCO/ VS/Hyderabad.
 - Chief Engineer/Metro Zone/ APTRANSCO/ Hydernbod.
 - 22. Chief Engineer/Rural Zone/ APTRANSCO/ Hyderabad.
 - 23. Chief Engineer/Zone/APTRANSCO/Vijayawada,
 - Chief Engineer/Zone/APTRANSCO/Visakhapatnam.
 - 25. Chief Engineer/Zone/APTRANSCO/Kadapa.
 - 26. Chief Engineer/Zone/APTRANSCO/Warangal.
 - Superintending Engineer//PM-I/400kV/APTRANSCO/ Vidyut Soudha/Hyderabad,
 - 28. Superintending Engineer/PM-II/400kV /APTRANSCO/ VS/Hyderahad,
 - 29. Superintending Engineer/400kV L&SS/Mint compound/Hyderabad,
 - 30. Superintending Engineer/400kV L&SS/ Vijayawada,
 - 31. Estate Officer/APTRANSCO/ Vidyut Soudha/Hyderabad,
 - 32. Central Record Section 2 copies.

Chief Engineer/Commit & PAC TSTRANSCO, Vidyut Soudhe. Hydernhad - 500 002

,	obstract Estimate :: Evacuation of Wind Power in Kadapa, Anantapur an Andhra Pradesh	d Kumoo		of of
	ABSTRACT ESTIMATE			Lakh His.)
St. No.	Description of Linet Substations	Lengity Ga	pecity	Cosi
	F Hindupur Sylvatation			
1	ACOZZONY Substation at I Enduper - 3 Nos. 315 MVA PTRs	3x315	MVA	11,4, 2.90
2	86 MVAR Bus Reyler	1	No.	965.00
3	400kV DC Quad Moase Line from Hindupor SS to 400kV Uravakenda SS	130	km	31,200.00
4	#DDkV DC Quad Mooke Line frugs Hindupur 5/5 to proposed 705/400 kV	40	kirs	8,000.00
n	Machinelin SS 400kV Quad Bay Extensions at Machingki (PGCL) Substation	2	Nos.	1,210.75
0	220kV DC Mosse Line from 400kV Hindspur SS to 220kV Perukonda SS	50	km.	3,492.00
	220/132 kV Dubalations of Percikonda	2x100	MVA	1,001.43
7	220/132 kV DIC Twin Model line from 400kV (Sridepur SS to 220kV Parspanur Tanda	90	No.	10,701.00
	58	de la la diferen	12000	
	220/132 kV Substation at Pareparter Tonds	2x100	WAY	2.118.14
	Sob-Tetal(A):			72,711,22
B:400	V Janunalamadogu Suhatation:	Lange a I		-
1	400/220/132kV Substation at Jammalameduge	4x315 & 2X160	MVA	14.949.13
2	400kV Quad Bay Extensions at Kunnool 400kV Substation	2	Nos.	1,115.50
3	80 MVAR Due Recloi	- 1	No.	1955.00
4	400kV DC Quad Mosse Line from 400kV Jammelamadugu to 400kV Kurneel SS	125	kin	30 5/30 00
5	400kV DC Guad Moose Line from 400kV Jamendamudugu to 400kV Uravakondi SS	110.00	km	26,400.00
- 6	320kV DC Modes fine from 400kV Jamina/senaduge SS to 220kV Trumslarpatly 55	17	kes	1,187,28
7	220/132 NV Substation at Tirumalarpally	2x100	MWA	2,189.05
	220kV DC Moose lins from 400kV Jammalamadugu SS to 220kV fletamcherla	68	RM.	4,149,12
. 9	220/132/33 kV Substellun af Belanicherte	2x1008 2x31.8	MVA	2.704.51
10	220kV DC Moose line from 400kV Jamesslamadugu SS to 220kV Chakrayapel 55.	70	Serie	4.360.80
11	220/132/33 kV Substation at Chak-syspet	2x100.8 2x31.5		2 195.0
12	220AV DC Moose line from 400kV Jammaiamartispir 55 to 220kV Porumamilia	75		2.238.0
13		Z×100	NIVA	1.906.2
	Sub-Total (-		\$9 427.6
0:40	OkV Uravekseda Substation:			A manufacture of the contract
		4x315	MVA	14,225.0
1	400kV Quad Ray Extensions of Mahyboobnagar 400kV Substation	- 2	No.	1,043
-	60 MVAR Bus Rector	1	No.	905.0
	ADDAY DC Quier Mobile line from 400kV Uravakonde SS to 400kV Abhitabootmager SS	,199	kitti	45600
	2209 V DC Twin Moose like Non-4016V Uravakonda BS to 220kV Vajrakerur S	16 13	kre	1545
AC	5 220/132 kV Substation at Vajnskarur	1×10	0 MVA	1,000
	2 2205V DC Twin Moose line from 400kV Unavakonda (55 to 220kV florempats)	55	ia km	.065
1	8 220/132 kV Substation at Bonempath	11/10	o MVA	555
-	Suti-Total	(G):		71,475

Chief Engineen/Complis RA TSTRANSCIO, Vidyut Bouch Hysteratud - 600,000

D:220k1	V Interconnectivities			
				electric control
1.	220kV DC Mosse Size from 400kV Hindupur SS to 220kV Hentique Substation	20	310	1,205 a
7	2206V DG Monee line from 400AV Univelonda SS to 2206V KalyanDurg SS	.50	km.	3,492 0
0	LRLO of both the choults of 220kV DC Moose the from 400kV Livershonds SD to 220kV KalyanDurg SS of 220kV Borangash (II)	10	km	1,366.0
4	220kV DC Moose line from 400kV Jammelamedugu SS to 220kV Tadipent SS	40	km -	2,790 0
5	220kV flay Extensions at 220kV Hindupur Gubstation	2	Nos.	221.0
0	220kV Boy Extensions at 220kV-Kalyandurg Societation	2	Nos	221.9
7	2204V Day Extensions at 220kV Tedpast Substation	2	Nes	221.9
	Bull-Totwi(D).			9,744.0
L 132 k	V Interconnectivities:	-		1, -
	THE STATE OF THE S	20	1	
2	132 kV DC line from 400/220/132 kV Jernsslamadugs 55 to 132/3 kV	10	kim:	441.70
3	Sammerango oc	12	Ken	530.0
	132 kV DC line from 220/132kV Porumanilla SS to 132/33 kV Porumanilla SS	10,	km	441,7
-	132 kV (key Extensions at 132/33 kV Penukonda Substation	2	Nes	132.8
	132 kV Bay Extensions at 132/33 kV Janualamedugu Substation	2	Nos	132.8
6	122 kV Bay Extensions at 132/33 kV Potentimile Substation	2	Non	132.9
_	Sub-Yotal(E):			1,811.84
Com	montestion Equipment:			+ + -
9	400kV Works	- 1		
10	220AV Works	LS		5219.74
10)	132kV Works		8	AND DESCRIPTIONS
	Total (A+R+C+D+E+F)			W. 400 A
	Special T & P dt 1%:	-		265,460,83
	Total (A+B+C+D+E+F+G) :		-	2,554,6
				280.115.43
-	Confingencies (3%) :			1:043.40
	Total Including contingencies /			271 158.80
-	Extl. and other charges @ 10.76% :			20 507.00
-	Grand Tetal:			305 845,8
	or Say (Ru. in Crores) ::		- 1	3,058,46
	Interest During Construction (Rs. in Crores) :			314.79

Creef Engineev Arment & PAC TSTRANSCO, Vidad Sought Hystershad - 500 (MI)

TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

treacuntion of Wind Power in Kadapa, Antatapas and Kameel districts of Andhra Producti-Administrative Approval - Accorded

T.O.O.(CE-Construction/400kV) Ms.No. 248

Date: 15-11-2012.

PROCEEDINGS:

Power Systems wing of APTRANSCO conducted Joint System Studies along with PGCH, & CHA officials at Delhi, for evacuation of 3150 MW power from Wind Generators in Andhra Fradesh, at 400 kV tevot.

Accordingly Chief Engineer/Construction/400kV has formulated the following transmission

scheme for evacuation of 1150 MW power from Ward Contrators as proposed by Power Systems wing.

- (1) Scope of the Comprehensive Schome:
- (a) 400kV Hindopur Substation
- (13 400(220kV Substation at Hindupr - 3 Nos. 315 MVA PTRa
- (11) 80 MVAR But Rector
- -1 No.
- (iii) 400kV DC Quad Moose Line from Hindupur SS to 400kV Umvakenda SS 130 kM. 400kV DC Quad Moose Line from Hinduper SS to proposed 765/400 kV Madhaghri SS-(iv) 40 kM (ISTS LINE).
- 2206 V DC Moose Line from 400k V Hindupur SS to 220k V Panukonda SS 50 kM. (v)
- 220/132 kV Substitions at Pennkonda (vi)
 - 2 Nos.100 MVA PTRS 220kV DC Twin Moose line from 400kV Hiedopur SS to 220kV Perspanor Tando SS --
- (viii) 220/132 kV Sufmation at Pompusus Tanda 2 Nos. 100 MVA PTRs.
- corky Kondapuram Substation; (11)
- (1) 400/220kV Solutation at Kondapurana 4 Nos. 315 MVA PTRa
- (0) 400kV Quad Bay Externions at Kumool 400kV SS - 2 Noz.
- * (00) 80 MVAR Bus rector

90 634

(viii)

- 1 No.
- 400kV DC Quad Moose Line from 400kV Kondaparen to 400kV Kurnool SS-125 kM. (iv)
- 400kV DC Quad Moose Line from 400kV Kondapuzzm to 400kV Uravskeeda\$5-110 kM. (+)
- 220kV DC Moose line from 400kV Kondepuram. SS to 220kV Tirumalaipaily SS $-10\;kM$ (vi)
- 220/132 kV Substation at Tiromulaipally 2 x100 MVA PTRs (viii)
- (viii) 220kV DC Moose line from 400kV Kondepurum SS to 220kV Beterocherla SS 78 kM
- 220/132 kV Substation at Betamcherla . -2 x 100 MVA PTRs
- 220kV DC Moune line from 400kV Kondopurum SS to 220kV Chakmyapet SS -- 60 kM (x)
- 220/132 kV Substation at Chakrayapet - 2 x100 MVA PTRs (xi)
- (xii) 220kV DC Meose line from 400kV Kondapuran 55 to 220kV Porumemilla SS 85 kM
- (xiii) 220/132 kV Substation at Portaminilla -2 x100 MVA PTRx
- (xiv) 220kV DC Moose line from 400kV Kendopuran SS to 220kV Januarahandugu SS 30 kM
- 22/0/132 kV Subscution at Japanslamadugu 2 x160 MVA PTRs

1 Chief Engineer/Comml & FIAC TSTRANSCO, Vidyut Southo. Hyderabad - 500 082.

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- 400kV Drayskonda Substation
- 400/220kV Substation of Uraveconda ... (1) 60

- 4 Nos. 315 MVA PTRE

- antile's Quad Bay Extensions at Malasbookneger 400k v 85 2 Nos. (Hit)
- 80 MVAR Buyreetor
- 400kV DC Quad. Moose line from 400kV Uravakonda SS to 400kV (PV) Mahaboobnagar SS ~ 190 kM CVE
- 220kV DC Twis Mosec line from 400kV Uravskenda 53 to 220kV Vajrakerur CHILD:
- 220/132 LV Substation at Vajminarity (vii)

- 220kV DC Twin Meose line from 400kV Uravakonda SS to 220kV Horampatti
- 220/132 kV Sobstation at Domantpalli Offile

- 1 No. 100 MVA PTR

- 2206V Interconnectivities:
- 220kV DC Moose line from 400kV Hindopse SS to 220kV Hindopse Substation 20 kM (0) (11)
- 220kV DC Meose line from 400kV Ucavakonda SS to 220kV KelyanDurg SS-50 kM CHO
- 220kV DC Moose line from 400kV Kondopny SS to 220kV Tadipatri SS 30 kM (iv)
- 220kV Bay Extensions at 220kV Hirsdapur Substation 2 Nov. (v)
- 220hV Bay Expensions at 220kV KalyenDurg Substation 2 Nos. (VI)
- 220kV Bay Ratensions at 220kV-Tadipatri Substation 2 Nos. (re)
- 132 hV Interconnectivities: 60
- 132 kV DC line from 220/132 kV Penukenda SS to 132/33 kV Penukonda SS 10 kM (11)
- 132 kV DC flor from 220/132 kV Jamusalumadaga SS to 132/23 kV Janumalamadaga SS --(111)
- 132 kV DC line from 220/132kV Portamaniilla SS to 132/33 kV Poremaniilla SS- 10 kM (h)
- 132k V Buy Extension at 132/33kV Posskouds SS 2 Nos. (v)
- 132kV Hay Extensions at 132/33kV Januariemadugu SS 2 Nos. (vi)
- 132kV flay flyrications at 132/33kV Porsmanifla SS = 2 Nor.
- After careful countdension, APTRANSCO accounts administrative approval for the transmission scheme namely "Evacuation of Wind Power in Kodapa, Anantapur and Kumool districts of Andlan Pradesh* with the above scope of works at an entimated cost of Rs.2033.69 Crove and Rs.324,05 Crore towards Interest During Construction (IDC). The total cost of the scheme including IDC is Ra.3357.74 Crure, as per the Amexure -Lenclored.
- The Chief Enginees/Construction/400 kV and the Chief Enginees/Construction-II, Vidyut Souths, Hyderalised are here by worthwized to take up the Phase -I works of the comprehensive scheme immediately, as per Amiescure II, making necessary budget provision and foods tie up.
- The Plasace wing of APTRANSCO will be requested for funds tie up for the Plase -1 works at an estimated cost of Ra.1776.76 Coves initially out of the estimated cost of Re.3033.69 Crores and Interest During Construction of Rs.324.05 Crores (i.e. Rs.3357.74 Crores including IDC) for the Comprehensive Scheme.

Carried and the control Thickory Chief Englater Control & RAC TSTRANSCO, Vietyur Soudha. 17yde abad - 500 0827

11341

- 6. In exercise of the powers conferred vide G.O.Ms.No.115, dated 07:10-2003 of Government of Andhra Pradesh, APTRANSCO or their authorized representatives shall have the powers for placing of the electric supply lines or electric plans for the transmission of electricity or for the purpose of telegraphic communications necessary for the proper co-ordination of works that a of 1885)
- This order is Issued with the concurrence of the Director (Finance & Revenue) vide Regd. No.4052, dated :01.11.2012.

(BY ORDER AND IN THE NAME: OF TRANSMISSION CORPORATION OF ANDREAS PRADESS LIMITITIES ...

Engl: Annexore L&H

DIRECTOR PROJECTS

The Chief Engineer/ Construction/400kV/ Vidyut Soudles, Hyderabad The Chief Engineer/ Construction-II/ Vidyut Soudles, Hyderabad

> Chief Engineer/Connets & RAC TSTRANSCO, Vidyut Soudha, Hyderabed - 509 062.

> > Contd.,

Cours to the : The Chief Engineer/ Construction-B/APTRANSCO/ Vidyut Souths, Hyderabad, Z. The Chief Engineer /Civil/APERANSCO/ Vidyat Soudha/Hyderabad, Chief Engineca/ Transmission/APTRANSCO/ Vidyut Soudba/Hydersbad. 4. Chief Engineer/Telesinn /APTRANSCO/ Vidyot Soudha/Hyderabad, Is later the DirectorPig. RAC &Reforms/APTRANSCORdyst Souths/Hydembad,

6. Chief Engineer/Power Systems/APTRANSCO/Vidyst Souths/Hydembad, 7. Chief Engineer/SLDC/APTRANSCO/ Vidyut Soudha /Llydershad, 8. Chief Engionee/Lift Irrigation/APTRANSCXX Vidyot Souths /Hydembad, % Chief General Managon/ERD & Trg/ APTRANSCO/ Vidyut Southa/Hydeunlad, -NO. FA & CCA (CF)/ APTRANSCO/ Vidyut Soudha/Hyderatud, U.FA.& CCA (A.II & R.Y. APTRANSCOV Vidyut Somilia/Flydenbud. 12. FA & CCA (TRY APTRANSCEV Vidyor Soudba/Hyderabad, 13. P.S. to the Clairman & Managing Director/APTRANSCO/Vidyot Southal Hydrobad, 14, P.S. to the Joint Managing Director (HRD, Count., IPC ,RA &F) VAPTRANSCOV VS/Hyd., P.S. to the Joint Managing Director (Vigilance & Soctrity)/APTRANSCO/VS/Hyd., 16. P.S to the Joint Managing Director (Distribution)/APTRANSCO/VS/Hydembed. [17] P.S. to the Director (Finance & Revenue)/APTRANSCO/ Vidyut Scaulin/ Hydrothod, 18. P.S. to the Director (Projects y APTRANSCO/ Vidyot Southall tydershad, 19. P.S. in the Director (Grid Operation) APTRANSCO/VS/Hyderabad, Fig. P.S to the Director (Transmission)/ APTRANSCE/ VS/Hyderabad, 21. Chief Engineer/Meira Zone/ APTRANSCO/ Hyderabad. y v. 22. Chief Enginees/Rural Zones' APTRANSCOr Hyderalust. 23. Chief Engineer/Zorse/APTRANSCO/Vilsyawada, 24. Chief Engineer/Zoor/APTRANSCO/Visekbagetnass A-25. Chief Engineer/Zone/APTRANSCO/Kudapa. Chief Engineer/Zone/APTRANSCO/Warangal. 27. Superintending Engineer/PM-1/40/8/V/APTRANSCO/ Vidyat Southa/Hydembal. 28. Superintending Engineer/PM-tt/400kV /APTRANSCO/ VS/Hyderalad, Superintending Engineer/400kV L&SS/Mint compound/Hydersbad, 30. Superintending Engineer/400kV LASS/ Vijzyawoda, 31. Company Secretary/APTRANSCXV Vidyor Sundha/Hydershad, 32. Estate Officed/APTHANSCO/Vidyst Notellia/Hyderabad, Central Record Section - 2 copies, 19/ mgra Chief Engineer/Commi & RVIO

TSTRANSCO, Vidyut Spudha. Hyderated - 500 062

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Chief Engineer/Commi & RAO TSTRANSCO, Vidyut Soudiai, Humushad - 200 (22)

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Chief Engineer/Commt & RAC TOTRANSCO, Vidyar Souths, Hyderatiad - 500 d62.

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Chief Engineer/Commit & PAG TSTHANISCO, Vidyut Scriethia, Hyderebad - 500 062.



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Purchased By: S/O SHAIK BASHEER BO HYD

For Whom B. SRINIVAD. S/O SATYANARAYANA RAO Seriel No. 1.708

Denomination 100

Sub Registrar

Ex. Officia Stamp

SRO: S.FL.Nagar

The Chief Project Manager Rural Electrification Corporation Limited NH ... NPA Post

Shivernmapally, Hyderabad

Sub: REC's financial assistance; Term Loan of Rs 2010.38crores (under disbursement) sanctioned to Transmission Corporation of Andhra Pradesh Limited (APTRANSCO), against project cost of Rs 2133.76 crores for erection of transmission network for Evacuation of power from 3150 MW Wind tomerators in Kadapa, Anonthapur and Kurnool in Andhra Pradesh(code no 8335) and a part of the project works costing Rs 225.13 crores being executed by Transmission Corporation of Telangama Limited (TSTRANSCO).

Rural Electrification Corporation Limited (REC) Las sanctioned a total Loan of Rs 2010.38 crutes pertaining to the Schemes as per Schedule I berounder to APTRANSCO. Upon reorganization of the state of Andhra Pradesh and on formation of Telangana state, the Hon'ble Governor of Andhra Pradesh has formed the rules for the purpose of giving effect to the transfer of assets, properties, liabilities 40. of APTRANSCO to TSTRANSCO vide GO no. 26 dated 29.05.2014. As such the assets & liabilities pertaining to the APTRANSCO stands transferred from APTRANSCO to TSTRANSCO w.e.f. 02.06.2014 by the said GO no. 26 based on jurisdiction area and population ration of both the States.

Chief Engineer/Comest & RAG TETHURISCID, Vidytal Southa, Mydgostad - 500 tifiz.

Financial Advisor 6

Chief Controllar of Accounts (Accounts)

TS TRANSCO, Vidyut Soudha. Hyderabad - 500 092

Open reorganization of the state of Andhra Pradesh and on formation of Telangana state, TSTRANSCO has been incorporated on 29th day of May 2014. The Board Resolution dated 16th day of May 2014 for incorporation of TSTRANSCO and a copy of Certificate of Incorporation dated 29th day of May 2014 issued by the Registrar of Companies are annexed as Annexure 1&2 respectively.

TSTRANSGO has come into effect on 2nd June 2014 and vide GO no.26 dated 29.05.2014 of Government of Andhra Pradesh and in accordance with the provisions of Andhra Pradesh Reorganizations Act 2014, assets & liabilities pertaining to the APTRANSCO slands transferred from APTRANSCO to TSTRANSCO, based on jurisdiction area and population ratio of both the States. Hence on change of composition to this effect, business has been reassigned from APTRANSCO to TSTRANSCO for the schemes/ businesses falling under the geographical location of Telangana State. Accordingly, a portion of works costing Rs 225.13 crores pertaining to the scheme for erection of transmission network for Evacuation of power from 3150 MW Wind Generators in Kadapa, Ananthapur and Kurnool in Andhra Pradesh(code no 8335) sanctioned to APTRANSCO falls under the jurisdiction of TSTRANSCO and the works for a cost of Rs 225.13 crores are being executed by TSTRANSCO. Confracts have been awarded by TSTRANSCO for the works falling in TSTRANSCO

in view of the foregoing we undertake that we shall submit the claims directly to REC for the works being executed by TSTRANSCO for the portion which falls under the jurisdiction of TSTRANSCO in respect of wind power evacuation scheme(code no 8335) sanctioned by REC to APTRANSCO and which is in operation in the territorial jurisdiction of TSTRANSCO also (details as per schedule- II), and undertake to serve the Loan obligation and also submit the necessary documents such as resolution/ approvals and also execute necessary documents to the satisfaction of REC, if required by REC.

We further undertake to perform the obligations under the financing/ security documents executed by APTRANSCO and comply with the terms and conditions of the americans letter issued by the REC sanctioning the Term Loan to APTRANSCO for wind power evacuation scheme(code no 8335) a portion of which costing Rs 225.13 crores is falling in the jurisdiction of TSTRANSCO. Details of the Sanction Letters, financing / security documents pertaining to schemes under disbursement and are indicated in

in view of the above, it is requested that the further disbursement under the scheme falling underside geographical location of TSTRANSCO for the works being executed by TSTRANSCO (as per schedule-ii) may be dishursed to TSTRANSCO, upon submission of claims, as per the bank details below:

Account No.62344544325 Bank and Branch: State Bank of Hyderabad, Gunfoundry Branch IFSC Code SBHY002006

A request letter dated 13th day of January 2015 From APTRANSCO regarding further disbursement pertaining to the scheme falling under TSTRANSCO is enclosed as annexure 3

Ratification of BOD to this effect will be furnished in due course after approval by BOD.

Yours faithfully,

Financial Auginories Chief Cleribe (confidence)

(Acad Min) TS TRANSCO, Vidyur Foresto, hy emphasi não par

Committee BAC THE RECORD Willy Lift Bought. Hydoubad - 500 cez.

schedule-I

Where I works as approved by APERC and now senctioned by REC Alexand of Work pressed

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1	2007 they Extent at 2200's Yestpace SS	FACE.	2	11095000	3,219
1	pial	Mile.	1	11995000	2.219
1	12kV Interconstattivities				11.262
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At Windows

Chief EndingerDowner S RAC TSTEAMS CC, Vidyut Southa, Hydurabad - 500 082.

schedule -IT

Description	(5) among Telanganu and Andhra Pradesh (In Rs crores)						
are see specialis	Cost of works for evacuation of wind power (as per sanction)	Gost of Works mow proposed to the executed by TSTRANSCO	Cost of Works now proposed to be executed by APTRANSCO				
Project cost excluding IDC	2023.70	203.96					
ADC.	210.06	21.17	1819.74				
Project cost		64.17	188.89				
including IDC	2233.76	225.13	2008.63				
Loan sanctioned by REC	2010.38	202.62	1807.76				

Award cost of TSTRANSCO for the portion of works which falls under the jurisdiction of TSTRANSCO in respect of wind power evacuation scheme(code on \$335)

No	Name of the work 460 KV Uravakanda SS	Sanctioned cost (R\$ Crores)	Contract Value(R) Chorsa)
1	400 KV Qued DC Line from Veltoer to Tungathedra siver crossing[73.65 KM] '(a portion of 400 KV Qued DC Line from 400 KV Urevskonda SS to 400 KV Mahabubrager SS pertaining to Talantena Resilies	302.43	110.60
2	600 KV Quad DC Line from Veltoor to Tungabludra river crowing (2) An Veltoor to		51.06
1	Veltoor SS(excluding cost of Switchgran		13.33
	Supply of switchger require for I nes Quad 460 KV Bays at 600/220 KV Valtoor SS TOTAL:	22.30	11.00
	4-9-(2-25))	225.13	188 10

Chief Berdinger Ament & FIAC 1STI VANSCO, Wayut Soudha, - Hydgrahad - 800 trsz.

I-simplymin

TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

(a wholly owned State Govt. Company) Vidyut Soudha :: Hyderabad.

EXTRACT FROM THE MINUTES OF THE 99¹⁰ BOARD MEETING OF THE COMPANY HELD ON 16-05-2014 AT 11:00 AM AT THE REGISTERED OFFICE AT VIDYUT SOUDHA, HYDERABAD.

III. ISSUES FOR CONSIDERATION BY THE BOARD:

2. Formation of TG TRANSCO:

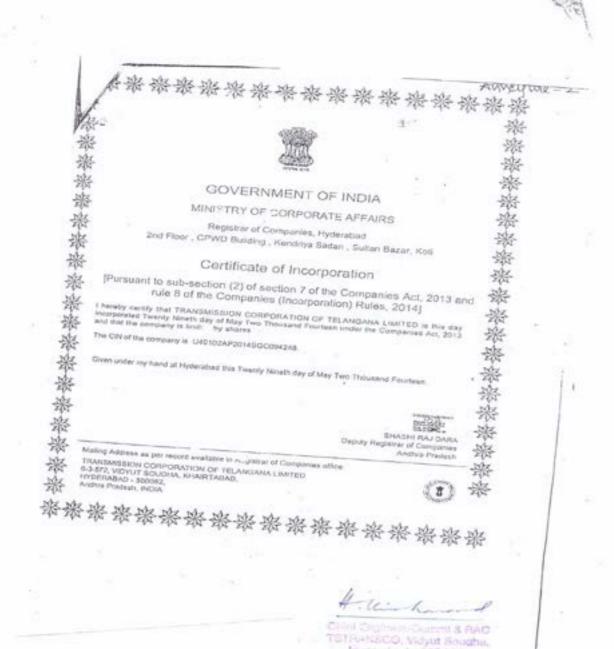
"RESOLVED THAT the propose. for formation of a new entity for the State of Telangana, as accepted by the Government in Letter No. 1519/CC/2014-1, dt. 09-05-2014, be and is hereby approved and that approval be and is hereby accorded to incur an expenditure of Rs. 2,55,01,720/- (Rupees Two crores fifty five talks one thousand seven hundred and twenty only), as detailed hereunder, and also the expenditure relating to preparation and filling of Affidavit, as attachment to the e-form; Professional Fee for certification, etc., for formation of the new entity —

For	Filing Fee (In Rs.)	Stamp Duty (In Rs.)	Total (In Rs.)
(Application for Incorporation of Company)	600	20	620
Memorandum of Association (MoA)	2,50,00,000	500	2,50,00,500
Articles of Association (AoA)	600	5,00,000	5,00,600
Total:	2,50,01,200	5,00,520	2,55,01,720"

// Certified true copy //

COMPANY SECRETARY APTRANSCO, HYDERABAD,

Chief Engineer/Commit & RAQ TSTTUNECO, Vioyas Souths, Flyamentard - 600 one.



Hydurabud - 500 osa.

MAAA 165330 1841

PRELIMINATION

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TRANSMISSION CORPORATION OF A.P.LTD VIDYUT SOUDHA: HYDERABAD-82.

From
The Financial Adviser &
Chief Controller of Accounts (A/cs)
APTRANSCO,
Vioyus Souths,
HyDERABAD.

The Chief Project Manager, M's REC Limited, CORE Campus, NH-7, NPA Road, Swarampally, HYDERABAD.

LR NO FASCUALAGGOUGHUSAO(LBSRV 17) H4, DT. 13 1, 2015

Sir

ub: Erection of Transmission net-work for evacuation of power from 3150MW Wind Generators in Keddpo, Anantapur & Kurnoci in A.P. — Certain works pertaining to TSTransco — Request for release of funds against the works – Reg.

Ref. 1. Wind Power Scheme Code:8335. 2. Execution of lean documents on 27/6/2014. 658.

It is to inform that M/s REC has sanctioned a term loan of Rs. 2010.36 crores towards eraction of Transmission Net work for evacuation of power from 3150 MW Wind Generators in Kadapa, Anantapur & Kurool in A.P. and the documents were also executed on 27/6/2014.

Further it is to inform that the following works are pertaining to Telangana region (400KV Uravakonda SS to Mahabootnegar):

S.NO	Name of the work	Contract Value (Ra. in crures)
1	400KV Quad DC line from Veltoer to Tungebhadts, River Crossing (73.52 km) (A portion of 400 KV Quad DC line from 400 KV Uravakonda SS to 400 KV Mahaboubhagar SS partaining to Telengana region (excluding cost of conductor)	110.60
2	Supply of Moose ACSR Conductor required for 400 KV Quad DC line from Veltoor to Tungabhadra River Crossing (73.85 KM)	51.00
3	2 Nos. Quad 400 KV Bays at 400/200 KV Veltoor SS (Excluding cost of Switchgear equipment)	53.53
4	Supply of Switchgear require for 2 Nos. Quad 400 RV Bays at 400/220 KV Veltoor SS	12.00
	Total	188:19

In view of the above, it is requested to release inan/rembursement to TSTransco to the extent of Rs. 199.37 crores (i.e. 90% of contract value of Rs. 188.19 crores) based on the physical progress report furnished by CE/400 KV Censts, /TSTRANSCO against the above works from time to time.

Yours feithfully.

FINANCIAL ADVISER & CHIEF CONTROLLER OF ACCOUNTS

Copy to FASCCA(Alcel/ TSTRANSCOA/Myd Raume Hudgenhad

Chial Engineer Convel & RAO TSTRANECO, Adapte Soughs.

Hydratical - 500 052

CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

Petition No.2/TT/2019

Coram:

Shri P.K. Pujari, Chairperson

Dr. M. K. lyer, Member

Shri I. S. Jha, Member

Date of Order of January, 2020

In the matter of:

Determination of tariff for the TSTRANSCO owned Inter State Transmission Lines/System of the 38 Nos. natural Inter-State Transmission lines connecting Telangana and Andhra Pradesh States as per the Central Electricity Regulatory Commission order dated 14.3.2012 in petition No. 15/Suo-Motu/2012, for inclusion in PoC Transmission charges in accordance with Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014.

And in the matter of:

Transmission Corporation of Telangana Limited

6-3-572, Vidyut Soudha,

Khairtabad, Hyderabad,

Telangana-500082

... Petitioner

Versus

1. Transmission Corporation of Andhra Pradesh Limited (APTRANSCO),

Vidyut Soudha, Gunadala, Eluru Road, Vijaywada,

Andhra Pradesh-520004

Chief Engineer, Commercial, TSPCC, Room No. 455,

A-Block, 4th Floor, Vidyut Soudha, Khairathabad,

Chief Engineer/Commit & RAC TSTRANCOO, Vioyal Soudhal Rays and a Scott St.

A Order in Petition No.2/FF/2019

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Hyderabad, Telangana-500082

3. Chief Engineer, Commercial, APPCC, Room No. 451,

A-Block, 4th Floor, Vidyut Soudha, Khairathabad,

Hyderabad, Telangana-500082

...Respondent

Parties present:

For Petitioner:

Ms. Swapna Seshadri, Advocate, TCTL

Shri Amal Nair, Advocate, TCTL

Shri N. Narotham, TCTL Shri P. Damoder, TCTL

For Respondent: None

ORDER

The present petition has been filed by Transmission Corporation of Telangana Ltd. ("TCTL") seeking approval of transmission tariff for the TCTL owned Inter State Transmission Lines/System of the 38 Nos, natural Inter-State Transmission lines connecting Telangana and Andhra Pradesh States as per the Central Electricity Regulatory Commission order dated 14.3.2012 in petition No. 15/Suo-Motu/2012, for inclusion in PoC Transmission charges in accordance with Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014.

Background

2. Earlier, APTRANSCO had filed petition no. 237/TT/2016 before this Commission for determination of tariff of the Inter-State transmission lines connecting the two States for the APTRANSCO owned transmission mes/system. In the said petition, TCTL had raised several issues and

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amount in the instant transmission lines and these are the lines laid before the bifurcation of the erstwhile State of Andhra Pradesh. The Commission directed the Chief (Engineering) of the Commission to look into the concerns raised by TCTL and the petitioner. Accordingly, the Chief (Engineering) of the Commission submitted the report deliberating that TCTL may approach the Commission for determination of tariff for the portion of the transmission line owned by TCTL. The relevant extracts of the Order dated 21.6.2018 in petition no. 237/TT/2016 are as under:

"9. The Commission directed the Chief (Engineering) of the Commission to look into the concerns raised by TCTL and the petitioner and submit a report in consultation with the petitioner, TCTL, SRPC and SRLDC. Accordingly, the Chief (Engineering) of the Commission submitted the report. The highlights of the report are as follows:-

a. The instant transmission lines may be treated as inter-State transmission lines connecting another State as certified by RPC.

b. As per the methodology of computation of PoC/Sharing of ISTS charges and losses among DICs, PoC charges depends on location, distance and direction of the node in the grid. Accordingly, only the net power flow capacity i.e. actual usage to Telangana is considered for inclusion in the POC methodology. As per the 2010 Sharing Regulations, the beneficiaries of the ISTS lines would share the charges in accordance with their utilization.

c. The Commission in order dated 12.5.2017 in Petition No. 07/SM/2017 directed the State utilities, whose lines have been certified by respective RPCs, to file tariff petition for determination of tariff under the 2014 Tariff Regulations for inclusion in the PoC charges. Accordingly, TCTL may approach the Commission for determination of tariff for the portion of the transmission line owned by TCTL.

TOTAL.

d. As the availability of norms for 132 kV/66 kV level is not available, the norms of concerned State Commission with regard to 132/66 kV may be taken into consideration."

The Central Electricity Regulatory Commission vide order dated 14.3.2012 in

Petition No. 15/SM/2012 had given the following directions:-

*5. It has come to the notice of the Central Commission that the some of the owners/developers of the inter-State transmission lines of 132 kV and above in North Eastern Region and 220 kV and above in Northern, Eastern, Western and Southern regions as mentioned in the Annexure to this order have approached





the Implementing Agency for including their transmission assets in computation of Point of Connection transmission charges and losses under the Central Electricity Regulatory Commission (Sharing of inter- State Transmission Charges and Losses) Regulations, 2010 (hereinafter "Sharing Regulations"). 6, As a first step towards inclusion of non-ISTS lines in the PoC transmission charges, the Commission proposes to include the transmission lines connecting two States, for computation of PoC transmission charges and losses. However, for the disbursement of transmission charges, tariff for such assets needs to be approved by the Commission in accordance with the provisions of Sharing Regulations. Accordingly, we direct the owners of these inter-State lines to file appropriate application before the Commission for determination of tariff for facilitating disbursement.

7. We direct the respondents to ensure that the tariff petition for determination of tariff is filed by the developers/owners of the transmission line or by State Transmission Utilities where the transmission lines are owned by them in accordance with the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2009, by 20.4.2012."

4. Further, the Commission vide order dated 12.5.2017 in Petition No.7/SM/2017 directed the State utilities to file tariff petitions for the ISTS lines connecting two States, alongwith the certificate from the concerned RPC, for the 2014-19 tariff period as per the 2014 Tariff Regulations. The relevant portion of the order dated 12.5.2017 is extracted hereunder:-

*7. Further, Statement of Reason (SOR) dated 26.10,2015 of Sharing Regulations (Third Amendment) provides as follows:-

15.21 A question arises for consideration is whether to fix a minimum percentage figure to consider a STU line as an ISTS line or not. As per Electricity Act and Tariff Policy, all lines which are incidental to Inter-state flow of power are to be considered as ISTS, In a meshed transmission system, many intra-State transmission lines carry inter-State power and therefore become incidental to inter-State transmission system. However, as Electricity Grid is being operated in a cooperative manner, for a minor fraction of ISTS power, it is expected that STU would not insist on considering its line(s) to be inter-State as on the one hand it will receive payment for its own lines, on the other it has to pay for usage of other States" lines. If a STU puts up a proposal for considering its line as ISTS and it is found that it is being utilized to a large extent by its own drawee nodes, then it would be merely an academic exercise as major part of tariff would be allocated to home State only. So keeping in view the regulatory process involved in getting a line certified as carrying ISTS power, getting its tariff approved and then adjustment from STU's ARR, it is expected that this claim will be raised judiciously. An interesting situation happened during 2011 when in Eastern and Northern Regions, many lines were submitted to RPCs for approval as ISTS, Southern States realizing that they all are using each other State's line, decided that they will not put up any line for certification by RPC as ISTS. While Commission wants to consider legitimate claims but this must not result in making process too complex. The RPC may therefore uniformly decide a percentage below which (say 10%) such a line would not be considered as an

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ISTS. Further, it is intended that for assessment of a particular line being used for carrying interState power, technical knowhow and tools will be provided by Secretariat of RPCs and NLDC/ RLDCs shall provide all necessary support to States in this regard.

- In view of the above, State utilities whose lines have been certified by respective RPCs to be considered under PoC should also file the tariff petition under the 2014 Tariff Regulations."
- Accordingly, TCTL has filed the instant petition for determination of Tariff of the 38 Nos. natural Inter-State Transmission Lines connecting Telangana & Andhra Pradesh States for the TSTRANSCO owned Transmission Lines/System.
- The Petitioner has made the following prayer:
 - a. to approve the annual fixed charges for the assets covered under this Petition;
 - to determine the tariff of the Inter-State transmission lines connecting two states;
 - to include the assets in POC Transmission charges, in accordance with Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014; and
 - d. to pass any other order or relief as the Commission may deem fit and proper in the facts and circumstances of the case.
- 7. The following 38 lines (Telangana Andhra Pradesh) are included in the instant petition by TSTRANSCO to claim Yearly Transmission Charges for its natural ISTS lines between Telangana and Andhra Pradesh:

SI. No.	Name of Line	Connecting States
1	400 KV VTPS - Malkaram Line	
2	400 KV VTPS - Suryapet Line	
3	400 KV Srisailam - Sattenapalli Ckt I	
4	400 KV Srisailam - Sattenapalli Ckt II	
5	400 KV Srisailam - Kurnool (SC) feeder	
6	400 KV Kalpaka - Khammam - I feeder	
7	400 KV Kalpaka - Khammam - II feeder	Telangana
1111 Bez	400 KV Uravakonda - Veltoor- I feeder	And Andhra Pradesh
8.4	400 KV Uravakonda - Veltoor- II feeder	
10	220 KV Nunna - KTPS Line	
ATTACK!	220 KV Tallapalli - Nagarjunasagar - I feeder	1

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SI. No.	Name of Line	Connecting States
12	220 KV Tallapalli - Nagarjunasagar - II feeder	
13	220 KV Tallapalli - Nagarjunasagar - III feeder	
14	220 KV Tallapalli - Chalakurthy feeder	
15	220 KV Chillakallu - Narketpalli - I feeder	
16	220 KV Chillakallu - Narketpalli - II feeder	
17	220 KV Brahmnakotkur - Wanaparthy line (LIS)	
18	220 KV Srisailam - Dindi - I feeder	
19	220 KV Srisailam - Dindi - II feeder	
20	220 KV N'Sagar Receiving Station - Srisailam SC Line	
21	220 KV LSR - KTPS - I feeder	
22	220 KV LSR - KTPS - II feeder	
23	132 KV Nagarjunasagar - RCPH feeder	

- The Petitioner has submitted the following to substantiate its claim:
 - a. The Petitioner has adopted the same YTC/Ckt-KM for each type of conductor configuration, as claimed by APTRANSCO in their Petition, for determination of YTC for ISTS Lines/System owned by TSTRANSCO taking into consideration of the following reasons.
 - b. The ARR & Tariff Order (issued for the combined State of AP by the erstwhile APERC, Dated 9.5.2014) was adopted by both the utilities (i.e., APTRANSCO and TSTRANSCO) up to FY 2016-17 and
 - c. The conductor-wise and voltage-wise configuration of TSTRANSCO transmission system are same as that of APTRANSCO transmission system which was mentioned in their Petition.
 - d. The YTC for the TSTRANSCO owned Inter State Transmission Lines/System of the 38 Nos. natural Inter-state transmission lines connecting TS & AP are computed based on the rates arrived by APTRANSCO, tabulated below:-



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S.N.	Name of Line	Type of Conductor	Ckt-km	YTC/CKT- KM(Rs. Lakh/CKT-KM)	YTC (* Lakh/ckt- km)	COD
1	400 KV VTPS - Malkaram line	D/C ACSR TWIN	378.64	10.44	3953.00	2.4.2013
2	400 KV VTPS -Suryapet line 400 KV Srisailam -		100000			
4	Sattenapalli Ckt I 400 KV Srisailam - Sattenapalli Ckt II	D/C ACSR TWIN MOOSE	1.20	10.44	12.53	12.2.2014
5	400 KV Srisailam- Kurnool (SC) feeder	SIC ACSR TWIN MOOSE	1.50	14.48	21.75	6.3.2001
6	400 KV Kalpaka - Khammam - I feeder	D/C ACSR TWIN	242.00	10.44	2526.48	10.5.2002
7	400 KV Kalpaka —Asupaka (Khammam — II) feeder	MOOSE	242.00	10.44	2020.40	10.5.2002
8	400 KV Uravakonda - Veltoo - I feeder	D/C ACSR	147.20	18.05	2656.96	17.11.201
9	400 KV Uravakonda - Veltoo - II feeder			10.00	2000.00	18,11,201
10	220 KV Nunn@ - KTPS Line	SIC ACSR DEER	64.45	4.89	315.16	21.1.1992
11	220 KV Tallapalli - Nagarjunasagar - I feeder 220 KV Tallapalli -	D/C ACSR TWIN	4.20	4.14	17.39	5.8.1985
12	Nagarjunasagar - II feeder	MOOSE	200000	0.00000	5-002000	100,000,000
13	220 KV Tallapalli - Nagarjunasagar - III feeder	S/C ACSR ZEBRA	4.00	4.89	19.56	27.1.1985
14	220 KV Tallapalli - Chalakurthy feeder	S/C ACSR ZEBRA	27.40	4.89	133.99	21.7.2007
15	220 KV Chillakallu - Narketpalli - I feeder	D/C ACSR MOOSE	216.00	4.14	894.24	10.3.2010
16	220 KV Chillákállu - Narketpalli - II feeder	D/C ACSR MOOSE	216.00			10.3.2010
17	220 KV Brahmnakotkur - Wanaparthy line (LIS)	S/C ACSR MOOSE	78.79	4.89	385.28	29.10.200
18	220 KV Srisailam - Dindi - I feeder 220 KV Srisailam - Dindi - II	D/C ACSR ZEBRA	160.00	4.14	662.40	12.9.1982
20	feeder 220 KV N'Sagar Receiving	S/C ACSR	4.00	4.89	19.56	7.2.1989
21	Station - Srisailam SC Line 220 KV LSR - KTPS - I feeder	DEER S/C ACSR DEER	81.00	4.89	396.09	31.3.1967
22	220 KV LSR - KTPS - II feeder	S/C ACSR DEER	81.00	4.89	396.09	31.3.1979
23	132 KV Nagarjunasagar – RCPH Feeder	S/C ACSR BEAR	7.70	4.89	398.09	25.2.1983
24	132 KV Piduguralia - Wadapalli	S/C ACSR PANTHER	2.36	3.95	30.42	22.2.2014
26	The Wadapalli	S/C ACSR PANTHER	2.36	3.95	9.32	26.8.2010
26	32 KV Chillakallu - Kodada	S/C ACSR PANTHER	9.84	3.95	9.32	10.6.2004

27	132 KV Chillakallu - Ramapuram line	D/C ACSR PANTHER	17.00	2.91	49,47	21,10.1982
28	132 KV Chillakallu - Sitapuram line	D/C ACSR PANTHER	2.00	2.91	5.82	6.4.2004
29	132 KV Chillakallu - Khammam line	D/C ACSR PANTHER	35.00	2.91	101.85	2.12.2001
30	132 KV Chillakallu - Kusumanchi line	D/C ACSR PANTHER	47.00	2.91	136.77	24.12.1985
31	132 KV Chillakallu - Madhira line	S/C ACSR PANTHER	7.00	3.95	27.65	27.10.2001
32	132 KV Sitapuram - KCP line	S/C ACSR PANTHER	0.37	3.95	1.46	10.5.2010
33	132 KV Chillakallu - Bonakallu - I feeder	D/C ACSR	7.00	2.04	00.07	22 4 4227
34	132 KV Chillakallu - Bonakallu - II feeder	PANTHER	7,00	2.91	20.37	20.1.1987
35	132 KV Alampur	D/C ACSR PANTHER	5.86	2.91	17.05	20.1.1987
36	132 KV A.P.Carbides - Gadwal	D/C ACSR PANTHER	52.10	2.91	151.61	13.1.2000
37	132 KV K. Kota - Aswaraopet - I feeder	D/C ACSR	5.00	0.04		0.0.4000
38	132 KV K. Kota - Aswaraopet - II feeder	PANTHER	5.90	2.91	17.11	9.6.1982

- 9. During the hearing dated 24.5.2019, learned counsel for the petitioner submitted that initially TCTL filed the petition in respect of 400 kV Uravakonda-Veltur Ckt. I & II lines but the same have now been removed from the instant petition pursuant to the said lines being included by APTRANSCO in its amended petition on their being certified by SRPC on 23.11.2016. Learned counsel for the petitioner further submitted that the lines in respect of which the present petition is filed are owned by STU carrying inter-State power and have been certified by SRPC vide letter dated 31.12.2016 and corrigendum dated 23.11.2016 for which the treatment given to APTRANSCO may also be extended to TSTRANSCO as all the material details furnished by APTRANSCO in its petition have been furnished by TCTL as well.
- 10. The Commission vide RoP for the hearing dated 24.5.2019 directed the partitioner to submit whether there are other beneficiaries to the instant transmission pes and if so, implead them as respondents and file revised "Memo of Parties" and

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also to serve copies of the same on them. The Commission further directed the petitioner to file minutes of RPC wherein the subject transmission lines were approved to be natural inter-State ISTS lines, requisite tariff forms in case of Assets-3, 4, 8, 9 and 24 alongwith the length of line of Telangna portion for these assets.

- 11. The petition was last heard on 8.8.2019 and the Commission reserved the order in the petition. The Petitioner was directed to submit the following:
 - Minutes of RPC wherein the subject transmission lines were approved to be natural inter-State ISTS lines, requisite tariff forms in case of Assets-3, 4, 8, 9 and 24.
 - Tariff forms and Auditor's certificate in respect of Asset-8 and Asset-9.
- 12 In response, the Petitioner vide affidavit dated 9.9.2019 submitted the following:
 - The SRPC certification vide letter dated 20.06.2019 regarding the 38 No.s.
 ISTS lines had already been placed on records.
 - The details of the Asset-3, Asset-4, Asset-8, Asset-9 and Asset-24 are as under;

Asset	Name of the Line	Total line length (in ckt KM)	Length of the line in ckt km (Telangana Portion)
3	400 KV Srisailam-Sattenpalli Ckt I	165.60	0.40
4	400 KV Srisailam-Sattenpalli Ckt II	165.60	0.40
В	400 Kv Uravakonda-Veltoor Ckt-l	196.96	73.50
9	400 Kv Uravakonda-Veltoor Ckt-II	196.95	73.50
24	132 kV Pidugurulla-Wadapalli	45.58	2.36

c. With regard to Assets-3 and Asset-4, it is submitted that the 400 kV
Sattenaopally-Srisailam- I &II feeders were formed by making LILO of both
circuits of 400 kV Srisaim-Nunna-I & II lines which were originally

Order in Petition No.2/TT/2019

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- commissioned on 23.10.2000. There is no modification in the Telangana Portion after the COD.
- d. It is prayed that the Commission consider the COD of the above lines in the Telangana Portion of 0.40 KM (for each line) as 23.10.2000. There has been no further modification in the Telangana Portion. Since the COD was before 2000 and much before bifurcation, the relevant cost data was not available.
- e. The Asset 24 i.e. 132 kV Wadapally-Pidugurualla line with a line length of 2.36 KM in Telangana was commissioned on 22.2.2014. Since the above Commissioning date is before the bifurcation of the state of the AP the relevant cost data was not available.
- f. Since, the Commission has already determined the tariff of the above lines vide the Order dated 21.6.2018 in Petition No. 237/TT2018 the same approach may be adopted for the present Petition as the Petitioner is not in a position to file the relevant tariff forms for the above old lines i.e. Assets 3, 4 & 24 as they are Commissioned before bifurcation of the state of A.P. and Telangana.

Analysis and Decision

13. We have considered the submission of the Petitioner. The SRPC vide letter dated 20.6.2019 has certified that the thirty eight (38) transmission lines are inter-State lines connecting the two States. It is observed that out of the 38 assets covered in the instant petition, the COD of Asset-8 and Asset-9 is 17.11.2016 and 18.11.2016 respectively, for which the Petitioner has not submitted the Auditors Cortificate, However, the Petitioner has submitted the Form-4A countersigned by the Chartered Accountant which cannot be considered as Auditors certificate. In

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addition, the Petitioner has not provided the complete set of Tariff Forms for these 2 assets. Accordingly, the Petitioner is directed to file afresh petition for approval of tariff for Asset-8 and Asset-9 as per the provisions of the 2014 Tariff Regulations along with the following information and all Tariff Forms:

- i. Auditor's Certificate indicating Hard Cost, IDC and IDEC as well as element wise (i.e land, building, transmission line, sub-station, communication system) capital cost as on COD and additional capital expenditure. In addition, Tariff Forms in line with Auditor's Certificates.
- ii. Statement of IDC computation containing name of loan, rate of interest drawl date and date of payment of last interest.
- iii. Duly approved Investment Approval.
- iv. Documents in respect of rate of interest claimed and effective tax rate.
- Accordingly, following 36 assets have been considered for determination of transmission charges:

Asset	Name of the line	Configurati on and type of conductor	Line Length claimed by the petitioner (in Ckt-KM)	Line length considered (in KM)	Date of Commissioning
Asset-1	400 KV VTPS -Malkaram line	D/C ACSR	272.01		
Asset-2	400 KV VTPS - Suryapet line	TWIN	378.64	189.32	02.04.2013
Asset-3	400 KV Srisailam - Sattenapalli Ckt I	D/C ACSR	Towns of		
Asset-4	400 KV Srisailam - Sattenapalii Ckt II	TWIN MOOSE	0.8	0.4	23.10.2010
Asset-5	400 KV Srisailam- Kurnool (SC) feeder	S/C ACSR TWIN MOOSE	1.5	1.5	06.03.2001
Asset-6 and Asset-7	400 KV Kalpaka - Khammam - I feeder 400 KV Kalpaka - Khammam - II feeder	D/C ACSR TWIN MOOSE	242	121	10.05.2002
Asset-10	220 KV Nunna - KTPS Line	S/C ACSR DEER	64.45	64.45	21.01.1992
Asset-11 and Asset-12	220 KV Tallapalli -Nagarjunasagar - I feeder 220 KV Tallapalli - Nagarjunasagar - II feeder	D/C ACSR TWIN MOOSE	4.2	2.1	05.08.1985
Assat-13	220 KV Tallapalli - Nagarjunasagar - III-feeder	S/G ACSR ZEBRA	4	4	27.01.1985
ASSA PARIS	220 KV Tallapalli - Chalakurthy feeder	S/C ACSR ZEBRA	27.4	27.4	21.07.2007

Asset	Name of the line	Configurati on and type of conductor	Line Length claimed by the petitioner (in Ckt-KM)	Line length considered (in KM)	Date of Commissioning
Asset-15 and Asset-16	220 KV Chillakallu - Narketpelli - I feeder 220 KV Chillakallu - Narketpelli - II feeder	D/C AGSR MOOSE	216	108	10.03.2010
Asset-17	220 KV Brahmnakotkur – Wanaparthy line (LIS)	S/C ACSR MOOSE	78.79	78.79	29.10.2009
Asset-18 and	220 KV Srisailam - Dindi - I feeder 220 KV Srisailam - Dindi - II feeder	D/C ACSR ZEBRA	160	80	12.09.1982
Asset-19 Asset-20	220 KV N'Sagar Receiving Station - Srisailam SC Line	S/C ACSR DEER	4	4	07.02,1989
Asset-21	220 KV LSR - KTPS - I feeder	S/C ACSR DEER	81	81	31.03.1967
Asset-22	220 KV LSR - KTPS - II feeder	S/C ACSR DEER	81	81	31.03,1979
Asset-23	132 KV Nagarjunasagar – RCPH feeder	S/C ACSR BEAR	7.7	7.7	25.02.1983
Asset-24	132 KV Piduguralia - Wadapalli	S/C ACSR PANTHER	2.36	2.36	22.02.2014
Asset-25	132 KV Tangeda - Wadapalli line	S/C ACSR PANTHER	2.36	2.36	26.08.2010
Asset-26	132 KV Chillakallu - Kodada line	S/C ACSR PANTHER	9.84	9.84	10.06.2004
Asset-27	132 KV Chillakallu - Ramapuram line	D/C ACSR PANTHER	17	8.5	21.10.1982
Asset-28	132 KV Chillakallu - Sitapuram line	D/C ACSR PANTHER	2	1	06.04.2004
Asset-29	132 KV Chillakallu - Khammam line	D/C ACSR PANTHER	35	17.5	02.12.2001
Asset-30	132 KV Chillakallu - Kusumanchi line	D/G AGSR PANTHER	47	23.5	24,12,1985
Asset-31	132 KV Chillakallu - Madhira line	S/C ACSR PANTHER	7	7	27.10.2001
Asset-32	132 KV Sitapuram - KCP line	S/C ACSR PANTHER	0.37	0.37	10.05.2010
Asset-33 and Asset-34	132 KV Chillakallu - Bonakallu - I feeder 132 KV Chillakallu - Bonakallu - II feeder	D/C ACSR PANTHER	7.00	3.50	20.01.1987
Asset-35	132 KV A.P. Carbides-Alampur	D/C ACSR PANTHER	5.86	2.93	20.01.1987
Asset-36	132 KV A.P. Carbides-Gadwal	D/C ACSR PANTHER	52.1	26.05	13.01.2000
Asset-37 and Asset-38	132 KV K. Kota - Aswaraopet - I feeder 132 KV K. Kota - Aswaraopet - II feeder	D/C ACSR PANTHER	5.9	2.95	09.06.1982

Note: Wherever ckt-km of D/C line has been given by the Petitioner, half of the same is considered for KMs of line length.

Similar issue was considered by the Commission in its order dated 22.6.2018

In Petition No. 155/TT/2017 wherein the transmission charges in respect of natural

Ines were determined on the basis of methodology already adopted by the

A. Order in Petition No.2/TT/2019

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Commission. The relevant portion of the said order is extracted as under :

"9 Some of the State Utilities have filed similar petitions claiming tariff of inter-State transmission lines connecting two States for the 2014-19 tariff periods as per the directions of the Commission. The information submitted by the State Utilities is incomplete and inconsistent. Further, some of the lines were more than 25 years old and the States were not having the details of the capital cost etc. To overcome these difficulties, the Commission evolved a methodology for allowing transmission charges for such transmission lines connecting two States in orders dated 19.12.2017 in Petition Nos. 88/TT/2017, 173/TT/2016 and 168/TT/2016 filed by Madhya Pradesh Power Transmission Corporation Limited, Maharashtra State Electricity Regulatory Commission and Uttar Transmission Corporation Limited respectively. Power Commission adopted the same methodology in order dated 4.5.2018 in Petition No.112/TT/2017, while granting tariff for ISTS connecting Rajasthan with other States and owned by Rajasthan Rajya Vidyut Prasaran Limited. The Commission derived the benchmark cost on the basis of the transmission lines owned by PGCIL. The useful life of the transmission line was considered as 25 years and for lines more than or equal to 25 years, only O & M Expenses and Interest on Working Capital (IWC) is decided to be allowed as per the existing Tariff Regulations. For assets put into commercial operation on or after 1.4.2014, tariff is decided to be allowed on the basis of the audited financial capital cost. The relevant portion of the order dated 4.5.2018 is extracted hereunder:-

*13. It is observed that the information submitted by the Petitioner States for computation of transmission charges for the deemed ISTS lines are not uniform, thereby causing divergence in working out the tariff. In some cases, the data related to funding and depreciation was not available and in some cases the assets have already completed, or nearing, their useful life. In most of the petitions, the states have expressed their inability to furnish the audited capital cost of transmission lines as the lines are old. As a result, tariff workings for old assets are ending in skewed results. It is further observed that the YTC figures emerging out by the existing ARR methodology are on the higher side. Considering these facts, we have conceptualized a modified methodology for determining the tariff of the inter-State transmission lines. The methodology is broadly based on the following:-

(a)PGCIL's Annual Report data has been used as the reference data; based on which, year wise benchmark cost has been derived.

(b)Useful life of Transmission Line has been considered as 25 years. Thus, if life is more than or equal to 25 years as on 1.4.2014, only O & M Expenses and Interest on Working Capital (IWC) shall be allowed as per the existing Tariff Regulations, in lieu of complete tariff.

(c)It is expected that the States do have the audited financial data of recently commissioned (i.e. on or after 1.4.2014) lines.

Tariff Methodology

14. As per the petitions filed by the states, their ISTS lines generally have the configuration of 132 kV, 220 kV or 400 kV. In the absence of an established tariff data base, in order to develop this methodology Annual

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Reports of PGCIL from 1989-90 to 2013-14 have been referred to. The Annual Reports depict, inter alia, the information pertaining to year wise total length of transmission lines in ckt-km and corresponding Gross Block. This pan-India data represents all the five transmission regions and is a composite mix of parameters like terrains, wind-zones, tower and conductor type etc. +/- 500 kV HVDC and 765 kV and above voltage level AC lines too have come up in between and the data also includes those lines. Voltage level- wise data as on 30th April 2017, obtained from PGCIL indicates that the percentage of 220 kV, 132 kV and 66 kV Transmission Line taken together makes it around 8.3% of the total line length owned by PGCIL. Further, 132 kV Transmission Lines were established in NER prior to 1990, and Transmission Lines of 220 kV voltage levels were last commissioned in around the year 2004 in NR. Majority of the transmission lines consist of 400 kV which corresponds to 66% of the total transmission line lengths. Thus, the 400 kV and lesser voltage levels account for approximately 75% of the transmission lines. Assuming the above referred spread of voltage wise percentages for earlier years too, it can be said that the year wise average Transmission Line cost figures derived from PGCIL data, when further reduced by 25%, fairly represent the average transmission line capital cost corresponding to a 400 kV S/C line. Considering 400 kV S/C transmission line cost as reference cost, analysis of PGCIL's indicative cost data (P/L Feb 2017) suggests the following:-

	Reference cost of 400 kV S/C TL	₹ X lakh/km
1.	400 kV D/C TL	1.39 X
2.	220 kV D/C TL	0.57 X
3.	220 kV S/C TL	0.36 X
4.	132 kV D/C TL	0.43 X
5.	132 kV S/C TL	0.31 X

15. Therefore, for arriving at the costs of transmission lines of other voltage levels and circuit configurations, the average transmission line cost data shall be multiplied by the factors illustrated in the above table. Lower voltage levels can be treated as part of 132 kV. The above table contemplates Twin Moose conductor which is widely used in State transmission lines.

16. Based on respective year end data, average transmission line length during the year has been worked out. Difference between a particular year's average transmission line length figures and that for the immediate preceding year provides us the transmission line length added during that year. Average gross block corresponding to transmission lines has been divided by the average transmission line length to arrive at the Average Cost of transmission line (in ' lakh per ckt-km) during the year. Thus, considering the year of COD of a State's ISTS line and its ckt-km, its cost would be worked out by relating it to PGCIL's transmission line cost during that year. Although the Commission has relied on PGCIL's Annual Reports, there are certain deviations in the cost data worked out. The year 1989-90 was the year of incorporation for PGCIL, and the transmission assets of NTPC, NHPC, NEEPCO etc. were taken over by

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PGCIL by mid-1991-92. Thus, as the base data for these years was not available, the corresponding average cost of transmission line could not be worked out. The average cost from 1992-93 onwards up to 2013-14 shows an increasing trend at a CAGR of 5.17%. Therefore, for the years 1989-90, 1990-91 and 1991-92, the average cost of transmission line has been back derived considering the 1992-93 average cost. Similarly, abnormal dip/spikes in the transmission line cost for the years 1996-97, 2001-02 and 2004-05 has been corrected by considering the average values of the transmission line costs in the immediate preceding and succeeding years.

17. While calculating tariff, the following has been considered:-

 Useful life of the transmission line shall be deemed to be 25 years

(ii) Prevailing depreciation rates as per the 2014 Tariff Regulations shall be considered uniformly for all the previous tariff periods so as to do away with the Advance Against Depreciation which was in vogue during earlier tariff periods. Notwithstanding the depreciation considered as recovered earlier, for the purpose of these tariff calculations, remaining depreciable value shall be spread over the remaining useful life of the transmission line, where the elapsed life is more than or equal to 12 years.

(iii) Normative Debt-Equity ratio shall be 70:30.

(iv) Normative loan repayment during a year shall be deemed to be equal to the depreciation allowed for that year.

(v) Rate of Interest on normative loan shall be the weighted average rate of interest as derived on the basis of PGCIL's Balance Sheet.

(vi) In order to avoid complexity, grossing up of rate of Return on Equity with tax rate is being dispensed with.

(vii) Bank rate as defined in 2014 Tariff Regulations, 2014 as on 1.4.2014 shall be applied for calculating the rate of interest on working capital on normative basis.

(viii) O & M Expenses as per the 2014 Tariff Regulations shall be considered.

(ix) Where the life of transmission line is more than or equal to 25 years as on 1.4.2014, only O & M Expenses and IWC shall be allowed in lieu of complete tariff.

18. Thus, in effect, this is a normative tariff working methodology which shall be applied in those cases where the audited capital cost information is not available."

The same methodology is adopted for calculating the tariff for aforesaid 36 assets owned by TCTL. Asset-11, Asset-12, Asset-13, Asset-18, Asset-19, Asset-

20, Asset-21, Asset-22, Asset-23, Asset-27, Asset-30, Asset-33, Asset-34, Asset-

Asset-37 and Asset-38 have already completed twenty five years as on

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1.4.2014. Therefore, as per the above methodology, only "Interest on Working Capital" and "O & M Expenses" components of tariff shall be allowable for these 16 assets. Remaining 20 assets (Asset-1 to Asset-7, Asset-10, Asset-14 to Asset-17, Asset-24 to Asset-26, Asset-28 & Asset-29, Asset-31, Asset-32 and Asset-36) have not completed have not completed 25 years as on 1.4.2014. Thus, in line with the aforesaid methodology, all tariff components are being allowed.

Transmission charges

 The transmission charges allowed for the instant assets are summarized in the following tables.

			(₹ in lakh
Particulars	Asset-1 and Asset-2 2016-17	Asset-3 and Asset-4 2016-17	Asset-5
Depreciation			
Committee Commit	1315.40	1.53	1.68
Interest on Loan	1020.31	0.86	0.00
Return on equity	1158.45	1.35	3.81
Interest on Working Capital	88.32	0.10	0.16
O & M Expenses	142.94	0.30	0.65
Total	3725.42	4.15	6.29

Particulars	Asset-6 and Asset-7 2016-17	Asset-10 2016-17	Asset-11 and Asset-12 2016-17
Depreciation	117.18	14.12	0.00
Interest on Loan	0.00	0.00	0.00
Return on equity	265.91	32.03	0.00
Interest on Working Capital	13.86	2.60	0.09
O & M Expenses	91.36	27.84	1.59
Total	488.31	76.59	1.67

Asset-13	Asset-14	Asset-15 and Asset-16
2016-17	2016-17	2016-17
0.00	24.50	157.45
0.00	8.40	76.72
0.00	21.58	138.66
0.10	1.91	13.09
1.73	11.84	81.54
1.82	68.22	467.45
	2016-17 0.00 0.00 0.00 0.10 1.73	2016-17 2016-17 0.00 24.50 0.00 8.40 0.00 21.58 0.10 1.91 1.73 11.84



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Particulars	Asset-17	Asset-18 and Asset-19	Asset-20
	2016-17	2016-17	2016-17
Depreciation	72.55	0.00	0.00
Interest on Loan	35.35	0.00	0.00
Return on equity	63.89	0.00	0.00
Interest on Working Capital	5.83	3.34	0.10
O & M Expenses	34.04	60.40	1.73
Total	211.65	63.74	1.82

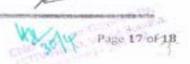
Particulars	Asset-21	Asset-22	Asset-23
	2016-17	2016-17	2016-17
Depreciation	0.00	0.00	0.00
Interest on Loan	0.00	0.00	0.00
Return on equity	0.00	0.00	0.00
Interest on Working Capital	1.93	1.93	0.18
O & M Expenses	34.99	34.99	3.33
Total	36.93	36.93	3.51

Particulars	Asset-24 2016-17	Asset-25 2016-17	Asset-26 2016-17
Depreciation	3.66	2.02	4.38
Interest on Loan	2.84	1.13	0.56
Return on equity	3.22	1.78	3.86
Interest on Working Capital	0.28	0.17	0.44
O & M Expenses	1.02	1.02	4.25
Total	11.01	6.11	13.48

Particulars	Asset-27 2016-17	Asset-28 2016-17	Asset-29 2016-17
Depreciation	0.00	0.62	6.83
Interest on Loan	0.00	0.08	0.00
Return on equity	0.00	0.54	15.49
Interest on Working Capital	0.35	0.07	1.24
O & M Expenses	6.42	0.76	13.21
Total	6.77	2.06	36.78

Particulars	Asset-30 2016-17	Asset-31 2016-17	Asset-32 2016-17
Depreciation	0.00	1.97	0.32
Interest on Loan	0.00	0.00	0.18
Return on equity	0.00	4.47	0.28
Interest on Working Capital	0.98	0.32	0.03
O & M Expenses	17.74	3.02	0.16
Total	18.72	9.78	0.96





Particulars	Asset-33 and Asset-34	Asset-35	Asset-36	Asset-37 and Asset-38
	2016-17	2016-17	2016-17	2016-17
Depreciation	0.00	0.00	4.75	0.00
Interest on Loan	0.00	0.00	0.00	0.00
Return on equity	0.00	0.00	10.79	0.00
Interest on Working Capital	0.15	0.12	1.44	0.12
O & M Expenses	2.64	2.21	19.67	2.23
Total	2.79	2.33	36.65	2.35

Sharing of Transmission Charges

- 18. The transmission charges of the natural ISTS lines considered in the petition shall be recovered on monthly basis in accordance with Regulation 43 of Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2014 and shall be shared by the beneficiaries and long term transmission customers in accordance with Central Electricity Regulatory Commission (Sharing of Inter State Transmission Charges and Losses) Regulations, 2010 as amended from time to time. Further, the transmission charges allowed in this order shall be adjusted against the ARR approved by the State Commission.
- This order disposes of Petition No. 2/TT/2019.

(I.S. Jha) Member (Dr. M.K. lyer)

(P.K. Pujari) Chairman

Authorised Signatory

Chief Engineero Cammi & FUS. TETRANGO, Veryut Souche, Hydrothag 200 092.



TRANSMISSION CORPORATION OF TELANGANA LIMITED

(Govt. of Telangana State Undertaking)

Vidyut Soudha, Khairatabad, Hyderabad-500 082., PABX: 23396000 (CIN No: U40102TG2014SGC094248) www.tstransco.in

AUTHORIZATION LETTER

I hereby authorize Sri A. Vivekanand, S/o A. Narsing Rao, Chief Engineer(Comml. & RAC), TSTRANSCO, Vidyut Soudha, Hyderabad to sign/verify, present, execute case/or application before the Hon'ble Regulatory Authorities and to give statement (oral/writing) in the name of TRANSMISSION CORPORATION OF TELANGANA LIMITED, in the official portal of Hon'ble CENTRAL ELECTRICITY REGULATORY COMMISSION.

CHAIRMAN & MANAGING DIRECTOR

IN THE CENTRAL ELECTRICITY REGULATORY COMMISSION AT NEW DELHI

PETITION NO. _____/TT/2021

IN THE MATTER OF:

Transmission Corporation of Telangana Limited

... Petitioner

Versus

Transmission Corporation of Andhra Pradesh Ltd.&Anr.

... Respondents

VAKALATNAMA

I, Mr. A. Vivekanand, S/o. A. Narsing Rao, aged about 57 years, working as the Chief Engineer in the Petitioner Company in the above Petition, do hereby appoint and retain Mr. Anand K Ganesan [D-1338/06], Ms. Swapna Seshadri[D-629/07] and Mr. Damodar Solanki [R-2057/18] of MSA Partners, Advocates to appear, plead and act for me/us in the above petition/application and to conduct and prosecute all proceedings that may be taken in respect thereof and applications for return of documents, enter into compromise and to draw any moneys payable to me/us in the said proceeding.

Place: Hydrol

Executed in my presence.

*Signature with date (Name and Designation)

(Address for service on the Counsel for the Petitioner) D-246, Defence Colony, New Delhi - 110024 Phone No. 011-41403716 9810941482 / 9818735544 office@msapartners.in Signature of the Party

Chief Engineer/Common A EP-C TS Tentes 20, Union Soundle

"Accepted"

*Signature with date (Name and Designation) Form-I

_		'Orm-I
	Particulars	
1.	Name of the Petitioner/Applicant	Transmission Corporation of Telangana Ltd.
2.	Address of the Petitioner/Applicant	Vidyut Soudha, Khairatabad, Hyderabad -500082
3.	Subject Matter	Petition under Section 79(1)(c) and (d) of the Electricity Act, 2003 for determination of tariff of the inter-State transmission lines connecting two states for the TSTRANSCO-owned transmission lines/system as per this Hon'ble Commission's order dated 05.09.2018 in Petition No. 07/Suo-Motu/2017 and order dated 13.01.2020 in Petition No.2/TT/2019 for inclusion in POC Transmission charges for the period FY 2019-20 to FY 2023-24 in accordance with the CERC (Terms and Conditions of Tariff) Regulations, 2019.
4.	Petition No., if any	/
5.	Details of generation assets (a) Generating station/units (b) Capacity in MW (c) Date of commercial operation (d) Period for which fee paid (e) Amount of fee paid (f) Surcharge, if any	
6.	Details of transmission assets (a) Transmission line and sub-stations (b) Date of commercial operation (c) Period for which fee paid (d) Amount of fee paid (e) Surcharge, if any	
7.	Fee paid for Adoption of tariff for (a) Generation asset (b) Transmission asset	
9.	Application fee for licence (a) Trading licence (b) Transmission licence (c) Period for which paid (d) Amount of fee paid	
	Fees paid for Miscellaneous Application Fees paid for Interlocutory Application	
	Fees paid for Regulatory Compliance petition	
12.	Fees paid for Review Application	
13.	Licence Fee for inter-State Trading (a) Category (b) Period (c) Amount of fee paid (d) Surcharge, if any	
	Licence fee for inter-State Transmission (a) Expected/Actual transmission charge (b) Period (c) Amount of fee calculated as a percentage of transmission charge. (d) Surcharge, if any	
15.	Annual Registration Charge for Power Exchange (a) Period (b) Amount of turnover (c) Fee paid (d) Surcharge, if any	

16. Details of fee remitted (a) UTR Nos.	(i) SBINR1252021052726039275 (ii) SBINR52021052726044278 (iii) SBINR52021052726045130 (iv) SBINR52021052726046130 (v) SBINR5202105276043910
(b) Date of remittance	26.05.2021
(c) Amount remitted	(i) Rs. 14,75,700/- (ii) Rs. 14,43,100/- (iii) Rs. 14,11,400/- (iv) Rs. 13,75,100/- (v) Rs. 13,44,100/-

Note: While Sl. Nos. 1 to 3 and 16 are compulsory, the rest may be filled up as applicable Signature of the authorized signatory with date

07.07.2021