

**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**

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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

1. Transmission Corporation of Andhra Pradesh Ltd.
Vidyut Soudha, Gunadala, Eluru Road,
Vijayawada, Andhra Pradesh-520004

2. 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:

1. 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:

".....
(36) "inter-State transmission system" includes-

- (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


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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 Srisailem - Kurnool (SC)	06.03.2001	Asset - I	1.5	Telangana - Andhra Pradesh
2.	400 KV Kalpaka - Asupaka	09.08.2017	Asset - II	Total TS Portion including LILO = 25.50 CKM	
	(a) 400 KV Kalpaka - Asupaka (Part of Old Line 400 KV Kalpaka - Khammam - I)	10.05.2002		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	
3.	400 KV Kalpaka - Khammam - II	10.05.2002	Asset - III	121.00	
4	400 KV VTPS - Suryapet- I	30.03.2016	Asset - IV	Total (TS Portion including LILO) = 56.66 CKM	Telangana - Andhra Pradesh
	(a) 400 KV VTPS - Suryapet- I (part of Old Main Line 400KV VTPS - Malkaram - I)	02.04.2013		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	
5.	400 KV VTPS- Suryapet - II	14.04.2018	Asset - V	Total TS Portion including LILO = 56.66 CKM	
	(a) 400 KV VTPS - Suryapet - II (Part of Old Line 400 KV VTPS-Malkaram - II)	02.04.2013		Portion of Old line = 54.66 CKM	
	(b) LILO of VTPS - Malkaram - II at Suryapet SS	14.04.2018		New LILO Portion = 2.00 CKM	

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6.	400 KV Srisaillam – Sattenapalli Ckt – I	23.10.2000	Asset - VI	0.40	
7.	400 KV Srisaillam – 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 Srisaillam - Dindi - I	12.09.1982	Asset – X	80.00	
11.	220 KV Srisaillam - Domalapenta	17.04.2019	Asset – XI	Total TS Portion including LILO = 0.30 CKM	
	(a) 220 KV Srisaillam – Domalapenta (part of old line 220 KV Srisaillam – Dindi - II)	12.09.1982		Portion of Old Line = 0.00 CKM (Main Line of 220 kV SSLM – Dindi – II Line)	
	(b) LILO of Srisaillam – 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 - Srisaillam (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 – Andhra Pradesh
19.	220 KV Brahmnaotkur (LIS) - Wanaparthy	29.10.2009	Asset – XIX	78.79	

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20.	220KV Chillakallu - Suryapeta	21.12.2016	Asset - XX	Total TS Portion including LILO = 50.30 CKM	Telangana - Andhra Pradesh
	(a) 220 KV Chillakallu - Suryapeta (part of old line 220 KV Chillakallu-Narketpally - I)	29.03.1999		portion of Old Line = 38.62 CKM	
	(b) LILO of Chillakallu to Narketpally - I at Suryapeta SS	21.12.2016		New LILO Portion = 11.68 CKM	
21.	220 KV Chillakallu - Pulichintala	05.12.2018	Asset - XXI	Total TS Portion including LILO = 66.78 CKM	
	(a) 220 KV Chillakallu - Pulichintala (Part of Old Line 220KV Chillakallu-Narketpally - II)	29.03.1999		Old line portion = 18.08 CKM	
	(b) LILO of Chillakallu to Narketpally - II at Pulichintala SS	05.12.2018		New LILO Portion = 48.70 CKM	
22.	132 KV Chillakallu-Ramapuram	21.10.1982	Asset - XXII	6.67	
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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29.	132 KV A.P.Carbides-Alampur - I	17.05.2004	Asset - XXIX	Total TS Portion including LILO = 5.86 CKM	Telangana - Andhra Pradesh
	(a) 132 KV A.P. Carbides - Alampur - I (part of old line 132 KV A.P. Carbides - Wanaparthy)	20.01.1987		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	
36.	132 KV Piduguralla - Wadapalli	22.02.2014	Asset - XXXVI	2.36	
37.	132 KV A.P.Carbides - Alampur - II	06.09.2014	Asset - XXXVII	Total TS Portion including LILO = 5.86 CKM	Telangana - Andhra Pradesh
	(a) 132 KV A.P.Carbides - Alampur - II (part of old line 132 KV A.P.Carbides - Gadwal)	13.01.2000		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	
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	

6. 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.
9. 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.
11. 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 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

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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 Srisaillam - Kurnool (SC)	54.57	1.50	1	81.86

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Asset II & III	400 KV Kalapaka-Asupaka (Main Line portion of Kalpaka - Khammam - I after LILO)	34	8.50	1	289.00
	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	-
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 Brahmna Kotkur (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	-
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)				
Asset Type	Asset	Capital Cost (excl. IDC) as on COD	IDC till COD	Capital Cost as on COD
LILO portion of Asset-II	400 KV Kalpaka - Asupaka	2910.41	341.44	3251.85
LILO portion of Asset-IV & V	400KV VTPS- Suryapet- I & II	559.55	65.65	625.20
LILO portion of Asset-XI	220 KV Srisailam - Domalapenta line	19.82	2.45	22.27
LILO portion of Asset-XX	220 KV Chillakallu - Suryapeta	698.19	81.91	780.10
LILO portion of Asset-XXI	220 KV Chillakallu - Pulichintala	3555.77	417.16	3972.93
LILO portion of Asset-XXXVII	132 KV A.P. Carbides - Alampur - II	159.52	18.71	178.23
Asset-XXXVIII & XXXIX	400 KV Veltoor - Uravakonda I & II	16830.59	1974.54	18805.13
Asset-XXXX & XXXXI	400 KV Suryapeta - KV Kota I & II	20520.08	2407.38	22927.46

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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 on COD	Additional Capital Expenditure					Capital Cost as on 31.03.2024
	2019-20	2020-21	2021-22	2022-23	2023-24	
3251.85	-	-	-	-	-	3262.44*

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

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

(Rs. in lakhs)

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

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

(Rs. in lakhs)

Capital Cost as on COD	Additional Capital Expenditure					Capital Cost as on 31.03.2024
	2019-20	2020-21	2021-22	2022-23	2023-24	
22.27	-	8.15	-	-	-	30.41

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

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

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

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

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

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

Capital Cost as on COD	Additional Capital Expenditure					Capital Cost as on 31.03.2024
	2019-20	2020-21	2021-22	2022-23	2023-24	
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):

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

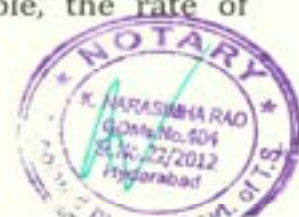
viii) 400 KV Suryapeta – KV Kota – I & II (Assets-XXXX & XXXXI):

Capital Cost as on COD	Additional Capital Expenditure					Capital Cost as on 31.03.2024
	2019-20	2020-21	2021-22	2022-23	2023-24	
22,927.46	-	-	-	-	-	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

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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	2020-21	2021-22	2022-23	2023-24
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 depreciation at the end of the period	454.31	626.57	798.82	971.08	1,143.34

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

(Rs. in lakhs)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
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 (LIL portion of Asset-XI):

(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 (LIL 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	-	-	-	-	-
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 (LIFO 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 end of the period	279.85	495.30	710.76	926.21	1,141.66

vi) 132 KV A.P.Carbides - Alampur – II (LIFO 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 end of the period	52.89	62.41	71.94	81.46	90.98

vii) 400 KV Velloor – 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	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	-	-	-	-	-
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:

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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)					
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	-	-	-	-	-
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 – Suryapet - I & II (LILO portion of Assets-IV & V):

(Rs. in lakhs)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Gross loan – 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	-	-	-	-	-

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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

iii) 220 KV Srisaillam - Domalapenta line (LLO portion of Asset-XI):

(Rs. in lakhs)

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

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

(Rs. in lakhs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Gross loan – Opening	583.43	583.43	583.43	583.43	583.43
Cumulative repayment of Normative Loan up to previous year	98.00	142.01	186.02	230.02	274.03
Net Normative loan – Opening	485.43	441.42	397.41	353.40	309.40
Increase/Decrease due to ACE/de-capitalisation during the year	-	-	-	-	-
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

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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

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

(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	-	-	-	-
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 (LLO portion of Asset-XXXVII):

(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 Veltloor – Uravakonda - I & II (Assets-XXXVIII & XXXIX):

(Rs. in lakhs)

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	-	-	-	-	-
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 loan	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)

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	-	-	-	-	-
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 loan	1,373.04	1,239.88	1,106.72	973.55	840.39

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(VI) RETURN ON EQUITY (RoE):

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%	34.944%	34.944%

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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)					
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

[Signature]
 Chief Engineer/Comm & P&G
 TSTRANSCO, Vidyal Snodha,
 Hyderabad - 500 062.



(%)					
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 Srisaillam - Domalapenta line (LILQ 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 (LILQ portion of Asset-XX):

(Rs. in lakhs)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Equity as on COD/Admitted equity	250.04	250.04	250.04	250.04	250.04
Additional Capital made during the year	0.00	0.00	0.00	0.00	0.00
Closing Equity	250.04	250.04	250.04	250.04	250.04
Average Equity	250.04	250.04	250.04	250.04	250.04
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	59.57	59.57	59.57	59.57	59.57

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

(Rs. in lakhs)					
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

H. V. S. S. S.
 Chief Engineer/Control & R&D
 TSTRANSOCO, Vidyut Soudha,
 Hyderabad - 500 001



Average Equity	1208.02	1224.16	1224.16	1224.16	1224.16
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	287.82	291.66	291.66	291.66	291.66

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

(Rs. in lakhs)					
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 Velloor - Uravakonda – I & II (Assets-XXXVIII & XXXIX):

(Rs. in lakhs)					
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

H. Vishwanath
 Chief Engineer/Control & R&G
 TSP&NCO, Vijayalaxmi,
 Hyderabad - 500 082.



Additional Capital made during the year	0.00	0.00	0.00	0.00	0.00
Closing Equity	6878.24	6878.24	6878.24	6878.24	6878.24
Average Equity	6878.24	6878.24	6878.24	6878.24	6878.24
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	1638.78	1638.78	1638.78	1638.78	1638.78

(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 sub-station 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):

A. Vishwanath
Chief Engineer/Control & Policy
T&T AND CO, Vidyut Soudra,
Hyderabad - 500 082.



i) 400 KV Kalpaka – Asupaka (LIFO 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- Suryapet – I & II (LIFO 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:					
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 (LIFO 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

A. Vishwanath
 Chief Engineer/Control & F&G
 TSTN&CO, Viduthi Goudha,
 400008 - 300 082.



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

(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)	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 (LIFO 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 (LIFO portion of Asset-XXXVII):

(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)	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. Muhammad
 Chief Engineer/Comm & RAC,
 TSTHANCO, Vidyut Sankha,
 Hyderabad - 500 082.



vii) 400KV Veltloor - 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.

K. Narasimha Rao
 Chief Engineer/Comm1 & FAC
 TSTRANSOC, Vidyut Soudha,
 Hyderabad - 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- Suryapet- 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 Srisaillam - 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

H. V. S. S. S.
Chief Engineer/Comm & EAL
TSTRANDCO, Vidyut Soudha,
Hyderabad - 500 082.



iv) 220 KV Chillakallu – Suryapet (LIFO 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 (LIFO portion of Asset-XXI):

(Rs. in lakhs)

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 (LIFO portion of Asset-XXXVII):

(Rs. in lakhs)

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)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
O&M Expenses	13.46	13.93	14.41	14.92	15.44
Maintenance Spares	24.22	25.07	25.95	26.86	27.80
Receivables	455.88	442.92	429.98	417.08	404.19
Total Working Capital	493.56	481.91	470.35	458.86	447.44
Rate of Interest	13.50%	13.50%	13.50%	13.50%	13.50%
Interest on Working Capital	66.63	65.06	63.50	61.95	60.40

A. Vinod
 Chief Engineer/Control & T&C
 T&C TRANSCO, Vidyut Soudha,
 Hyderabad - 500 032.



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)

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

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

(Rs. in lakhs)

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

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

H. Vinod
 H. Vinod, Chartered Accountant
 10/1, Nandam, Vidyalaya Road,
 Hyderabad - 500 082.



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 (LIL O portion of Asset-XX):

(Rs. in lakhs)					
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 (LIL O portion of Asset-XXI):

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

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

(Rs. in lakhs)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	9.52	9.52	9.52	9.52	9.52
Interest on Loan	8.59	7.54	6.50	5.45	4.40
Return on Equity	12.89	12.89	12.89	12.89	12.89
Interest on Working Capital	1.33	1.34	1.35	1.36	1.37
O&M Expenses	16.38	16.95	17.55	18.16	18.81
Total:	48.71	48.25	47.81	47.39	47.00

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

(Rs. in lakhs)					
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

H. Vishwanath
 Chief Engineer/Control & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500004



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

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

(Rs. in lakhs)

Particulars	2019-20	2020-21	2021-22	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
Return on Equity	1638.78	1638.78	1638.78	1638.78	1638.78
Interest on Working Capital	80.21	78.26	76.32	74.40	72.48
O&M Expenses	178.52	184.76	191.24	197.98	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

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 Hyderabad - 500 082.



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 - Srisailem (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	173.72	169.89
Asset XXI	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
	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

A. Lakshmi
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 T&EHA-2, COV, Vidyalaya,
 Hyderabad - 500 081.



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

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:

H. V. S. S. S.
Chief Engineer/Comm1 & RAC
TSTIRACCO, Vidyut 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).
- b) 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

H. Vishwanath
 Chief Engineer/Comptt & R&T
 TSTRANSCO, Viduth Soudha,
 Hyderabad - 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

A. Vishwanand
PETITIONER
Chief Engineer - Control & IT
TSTRANSCO, Vidyal Soudha,
Hyderabad - 500 082.



ATTESTED
K. Narasimha Rao
3/6/2021
K. NARASIMHA RAO, B.A., LL.B.
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.

VERIFICATION:

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 03 day of June, 2021.

A. Vivekanand
DEPONENT
Chief Engineer/Comm & RAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.

ATTESTED

K. Narasimha Rao
K. NARASIMHA RAO, B.A., LL.B.
ADVOCATE / NOTARY
Appointed by the C.E.R. of T.R.
10-1-591/101, A.C. Quater,
Khairatabad, HYDERABAD

A. Vivekanand
DEPONENT
Chief Engineer/Comm & RAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.



SPEED POST



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केन्द्रीय विद्युत प्राधिकरण
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29, रैस कोर्स क्रॉस रोड
बैंगलूर - 560 009



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: secommis/rpc-ka@nic.in ; web site: www.srpc.kar.nic.in
No. SRPC/SE-1/2020/ 2207-53 दिनांक/ Dated: 11th June, 2020

सेवान्वित / To

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

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

Ref: TSTRANSCO letter No: CE (Comm.&RAC) /SE(Plg) /DE(RAC)/RAC/ F.No. ISTS /D.No.06/2020 dated 27.05.2020

महोदय /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:

"(y) 'Yearly Transmission Charge (YTC)' means the Annual Transmission Charges for the existing 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.

CE (COMML & RAC)
TSTRANSCO

Inward No: 216

15 JUN 2020

SE/Plg. ✓
SE/Comm.

CE (Comm. & RAC)

Provided that in case of non-ISTS lines, the asset-wise tariff determined by the respective State Commissions or approved by the Central Commission based on the approved Annual Revenue Requirement of STU, shall be used."

Unquote:

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.

Yours faithfully,

मेका रामकृष्ण

(मेका रामकृष्ण/ MEKA RAMAKRISHNA)

अधीक्षक अभियन्ता(वा)/Superintending Engineer (C)

Copy To:

1. Joint Managing Director (Finance, Comm. & HRD), TSTRANSCO, Hyderabad
2. Chief Engineer (SLDC), TSTRANSCO, Hyderabad

H. U. K. K. K. K.
Chief Engineer/Comm. & RAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.



भारत सरकार
केन्द्रीय विद्युत प्राधिकरण
दक्षिण क्षेत्रीय विद्युत समिति
29, रेस कोर्स क्रॉस रोड
बैंगलूर :- 560 009



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: secommisrpo-ka@nic.in ; web site: www.srpc.kar.nic.in

No. SRPC/SE-1/2019/5691-93

दिनांक /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

Ref: TSTRANSCO letter No.CE(Comml.&RAC)/SE(Plg.)/RAC/F.IST/ D.No.54/19 dated 29.08.2019

Sir,

With reference to the TSTRANSCO letter cited under reference requesting certification of the 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 furnished by TSTRANSCO) are certified as Natural Inter-State lines owned by TSTRANSCO connecting Telangana with Andhra Pradesh and Karnataka as detailed below:

Description	Financial Year	Number of 400 kV lines	Number of 220 kV lines	Number of 132 kV lines	Total number of Natural Inter-State lines
(1)	(2)	(3)	(4)	(5)	(6)=(3)+(4)+(5)
Annexure-I	2014-15 *	07	14	16	37
Annexure-II	2015-16	07	14	16	37
Annexure-III	2016-17	11	14	16	41
Annexure-IV	2017-18	11	14	16	41
Annexure-V	2018-19	11	14	16	41
Annexure-VI	2019-20 #	11	14	16	41

* from 2nd June 2014 to 31st March 2015.

upto 31st July 2019

Yours faithfully,

संलग्नक: यथोपरि/ Encl: as above

टी वेंकटेश्वरलु
(टी वेंकटेश्वरलु/T.VENKATESWARLU)

अधीक्षक अभियंता(C) / Superintending Engineer(C)

प्रतिलिपि /Copy to:

1. Joint Managing Director (Finance, Comml. & HRD), TSTRANSCO, Hyderabad
2. Chief Engineer (SLDC), TSTRANSCO, Hyderabad

H. Uthappa
Chief Engineer/Comml & RAC
TSTRANSCO, Vidyal Soudha,
Hyderabad - 500 082

Annexure-III

List of SRPC certified Natural Inter State Lines Owned by Telangana STU for FY 2016-17

Sl. No.	Name of Line	Telangana Substation	D.O.C.	Termination Date of operation of the Line	Total Line Length (in Ckt-km)	Length of the Line Telangana Portion (in Ckt-km)	Connecting States
1	400 kV Sriraman - Karimnagar (SC)	Sriraman L.B.	06.03.2002	-	102.00	1.50	Telangana & Andhra Pradesh
2	400 kV Kalpaka-Khammam-I	Khammam	16.03.2002	-	360.00	171.00	
3	400 kV Kalpaka-Khammam-II	Khammam	16.03.2002	-	360.00	171.00	
4	400 kV VTPS- Suryapet-I	Suryapet	30.03.2016	-	129.00	56.96	
5	400 kV VTPS-Mahabubnagar-CK-II	Mahabubnagar	13.02.2013	-	260.95	189.32	
6	400 kV VTPS- Saranipalli Ckt-I	Sriraman L.B.	12.02.2014	-	166.95	0.40	
7	400 kV VTPS- Saranipalli Ckt-II	Sriraman L.B.	12.02.2014	-	166.95	0.40	
8	400 kV Uyyakonda-Vellore-I	Vellore	17.11.2016	-	196.96	73.60	
9	400 kV Uyyakonda-Vellore-II	Vellore	18.11.2016	-	196.96	73.60	
10	400 kV Suryapet-Kamareddy Kota-I	Suryapet	30.10.2016	-	173.00	86.48	
11	400 kV Suryapet-Kamareddy Kota-II	Suryapet	30.10.2016	-	173.00	86.48	
12	220 kV Lower Silora-KTPS-I	KTPS	31.03.1967	-	141.17	83.08	
13	220 kV Lower Silora-KTPS-II	KTPS	31.03.1979	-	113.70	23.00	
14	220 kV Sriraman-Dindori-I	Dindori	12.09.1982	-	81.20	80.00	
15	220 kV Sriraman-Dindori-II	Dindori	12.09.1982	-	81.20	80.00	
16	220 kV Tallapalle-Nagarjunasagar-III	Nagarjunasagar	27.01.1985	-	13.00	4.90	
17	220 kV Tallapalle-Nagarjunasagar-I	Nagarjunasagar	03.08.1985	-	12.10	2.10	
18	220 kV Tallapalle-Nagarjunasagar-II	Nagarjunasagar	03.08.1985	-	12.10	2.10	
19	220 kV N.Sagar Receiving Station-Sriraman (SC) Line	N.Sagar Receiving Station	07.02.1989	-	90.00	4.00	
20	220 kV Noma-KTPS	KTPS	21.01.1992	-	134.60	64.45	
21	220 kV Tallapalle-Chalakurthy	Chalakurthy	21.01.2007	-	38.40	27.40	
22	220 kV Brahmanakurthy-Wangaparthi (L.S)	Wangaparthi (L.S)	29.10.2009	-	97.64	78.79	
23	63.220 kV Chilikakla-Narkatpalli-I	Narkatpalli	18.03.2010	21.12.2016	130.00	138.00	
24	63.220 kV Chilikakla-Suryapeta	Suryapeta	21.12.2016	-	63.80	50.30	
25	220 kV Chilikakla-Narkatpalli-II	Narkatpalli	18.03.2010	-	130.00	108.00	
26	132 kV Chilikakla-Rangareddy	Rangareddy	21.10.1982	-	23.67	6.67	
27	132 kV Kamareddy Kota-Awarapet-I	Awarapet	09.06.1982	-	36.50	5.50	
28	132 kV Kamareddy Kota-Awarapet-II	Awarapet	09.06.1982	-	36.50	5.50	
29	132 kV Nagarjunasagar-RCPH	Nagarjunasagar	23.02.1983	-	13.78	7.70	
30	132 kV Chilikakla-Konamancha	Konamancha	24.12.1983	-	58.08	47.00	
31	132 kV Chilikakla-Bhongakalla-I	Bhongakalla	20.01.1987	-	20.00	2.80	
32	132 kV Chilikakla-Bhongakalla-II	Bhongakalla	20.01.1987	-	20.00	2.80	
33	132 kV A.P.Chibhalu-Alampur-I	Alampur	17.05.2004	-	19.70	5.85	
34	132 kV A.P.Chibhalu-Alampur-II	Alampur	06.09.2014	-	22.06	5.86	
35	132 kV Chilikakla-Madana	Madana	22.10.2005	-	28.00	7.00	
36	132 kV Chilikakla-Khammam	Khammam	02.12.2006	-	48.00	35.00	
37	132 kV Chilikakla-Sitapuram	Sitapuram	06.04.2006	-	17.00	2.30	
38	132 kV Chilikakla-Kodala	Kodala	10.06.2006	-	21.56	9.84	
39	132 kV Sitapuram-KCP	Sitapuram	10.05.2010	-	2.40	0.27	
40	132 kV Wangaparthi-Wadipalli	Wadipalli	26.08.2010	-	20.74	2.16	
41	132 kV Peddapalle-Wadipalli	Wadipalli	22.02.2014	-	45.58	2.36	
42	220 kV Tandur-Sedam	Tandur	28.02.2001	-	84.50	9.40	Telangana & Karnataka

(Note: Lines Data furnished by TSTRANSO)

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 Chief Engineer/Commi & RAC
 TSTRANSO, Vidyut Soudha,
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Annexure-IV

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

Sl. No.	Name of Line	Telangana Substation	D.O.C	Commencement Date of operation of the Line	Total Line Length (in Ckt-km)	Line Telangana Portion (in Ckt-km)	Connecting States
1	400 kV Srisailem - Kumool (SC)	Srisailem LB	06.03.2001	-	102.00	1.50	Telangana & Andhra Pradesh
2	a) 400 kV Kalpala-Khammam-I	Khammam	10.05.2002	09.08.2017	160.00	121.00	
3	b) 400 kV Kalpala-Khammam-II	Khammam	09.08.2017	-	264.50	25.50	
4	400 kV Kalpala-Khammam-II	Khammam	10.05.2002	-	160.00	121.00	
5	400 kV VTPS- Suryapet-I	Suryapet	10.03.2016	-	179.00	56.96	
6	400 kV VTPS-Malkajgiri-Ckt-II	Malkajgiri	12.02.2012	-	200.95	188.32	
7	400 kV VTPS- Sattenapalli Ckt-I	Srisailem LB	12.02.2014	-	166.00	0.40	
8	400 kV VTPS- Sattenapalli Ckt-II	Srisailem LB	12.02.2014	-	166.00	0.40	
9	400 kV Urvakonda-Vellore-I	Vellore	17.11.2016	-	196.96	73.60	
10	400 kV Urvakonda-Vellore-II	Vellore	18.11.2016	-	196.96	73.60	
11	400 kV Suryapet-Kammarupeta-Kota-I	Suryapet	20.10.2016	-	175.00	86.40	
12	400 kV Suryapet-Kammarupeta-Kota-II	Suryapet	20.10.2016	-	175.00	86.40	
13	220 kV Lower Sitona-KTPS-I	KTPS	31.03.1987	-	141.17	81.00	
14	220 kV Lower Sitona-KTPS-II	KTPS	31.03.1979	-	113.20	25.00	
15	220 kV Srisailem-Dindi-I	Dindi	12.09.1982	-	81.20	80.00	
16	220 kV Srisailem-Dindi-II	Dindi	12.09.1982	-	81.20	80.00	
17	220 kV Tallapalle-Nagarjunasagar-III	Nagarjunasagar	27.01.1985	-	15.00	4.00	
18	220 kV Tallapalle-Nagarjunasagar-I	Nagarjunasagar	05.08.1985	-	12.10	2.10	
19	220 kV Tallapalle-Nagarjunasagar-II	Nagarjunasagar	05.08.1985	-	12.10	2.10	
20	220 kV N. Nagar Receiving Station-Srisailem	N. Nagar Receiving Station	07.02.1989	-	90.00	4.00	
21	220 kV Narsa-KTPS	KTPS	21.01.1992	-	125.60	64.45	
22	220 kV Tallapalle- Chalakurthy	Chalakurthy	21.07.2007	-	38.40	27.40	
23	220 kV Bhamasankota-Wanaparthy(LIS)	Wanaparthy(LIS)	29.10.2009	-	97.64	78.79	
24	220 kV Chilikakla-Suryapet	Suryapet	21.12.2016	-	65.80	50.10	
25	220 kV Chilikakla-Narketpalli-II	Narketpalli	10.05.2010	-	120.00	108.60	
26	132 kV Chilikakla-Rangapuram	Rangapuram	21.10.1982	-	21.67	6.67	
27	132 kV Kammarupeta-Kota-Awarapet-I	Awarapet	09.06.1982	-	36.50	5.50	
28	132 kV Kammarupeta-Kota-Awarapet-II	Awarapet	09.06.1982	-	36.50	5.50	
29	132 kV Nagarjunasagar-RCPE	Nagarjunasagar	25.02.1983	-	13.70	7.70	
30	132 kV Chilikakla-Kusumanchi	Kusumanchi	24.12.1985	-	58.00	47.00	
31	132 kV Chilikakla-Bonakalla-I	Bonakalla	20.01.1987	-	20.00	2.80	
32	132 kV Chilikakla-Bonakalla-II	Bonakalla	20.01.1987	-	20.00	2.80	
33	132 kV A.P. Carides-Alampur-I	Alampur	17.05.2004	-	19.70	5.86	
34	132 kV A.P. Carides-Alampur-II	Alampur	06.09.2014	-	27.00	5.86	
35	132 kV Chilikakla-Madhira	Madhira	27.10.2001	-	28.00	7.00	
36	132 kV Chilikakla-Khammam	Khammam	02.12.2001	-	46.00	35.00	
37	132 kV Chilikakla-Sitapuram	Sitapuram	06.04.2004	-	17.00	3.50	
38	132 kV Chilikakla-Kodada	Kodada	10.06.2004	-	21.56	9.84	
39	132 kV Sitapuram-KCP	Sitapuram	10.05.2010	-	2.40	0.37	
40	132 kV Tadipatri-Wadapalli	Wadapalli	26.08.2010	-	29.74	2.36	
41	220 kV Tadipatri-Sedam	Tadipatri	28.02.2001	-	44.50	0.45	Telangana & Karnataka

(Note: Lines Data furnished by TSTRANSO)

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Annexure-V

List of SRPC certified Natural Inter State Lines Owned by Telangana STU for FY 2018-19

Sl. No.	Name of Line	Telangana Substation	D.O.C.	Termination Date of operation of the Line	Total Line Length (in Ckt-km)	Net Telangana Portion (in Ckt-km)	Connecting States
1	400 kV Sriraman - Karnool(SC)	Sriraman LB	06.03.2001	-	102.00	1.50	Telangana & Andhra Pradesh
2	400 kV Kalolga-Angulika-I	Angulika	09.08.2017	-	264.58	23.50	
3	400 kV Kalolga-Khammam-II	Khammam	10.05.2007	-	260.00	121.00	
4	400 kV VTPS- Suryapet-I	Suryapet	30.03.2014	-	129.00	56.96	
5	a) 400 kV VTPS-Malkajgiri-CK-I	Malkajgiri	13.02.2013	14.04.2018	260.91	189.32	
	b) 400 kV VTPS- Suryapet-II	Suryapet	14.04.2018	-	129.00	56.96	
6	400 kV Sriraman - Suryapet-II CK-I	Sriraman LB	12.02.2014	-	166.00	0.40	
7	400 kV Sriraman - Sattenapalli CK-II	Sriraman LB	12.02.2014	-	166.00	0.40	
8	400 kV Urvakonda-Vellore-I	Vellore	17.11.2016	-	196.96	73.40	
9	400 kV Urvakonda-Vellore-II	Vellore	18.11.2016	-	196.96	73.40	
10	400 kV Suryapet Kamavaram Kota-I	Suryapet	20.10.2016	-	175.00	86.40	
11	400 kV Suryapet Kamavaram Kota-II	Suryapet	20.10.2016	-	175.00	86.40	
12	220 kV Lower Sifra-KTPS-I	KTPS	31.03.1967	-	141.17	81.00	
13	220 kV Lower Sifra-KTPS-II	KTPS	31.03.1979	-	113.29	25.00	
14	220 kV Sriraman-Dandi-I	Dandi	12.09.1982	-	81.20	80.00	
15	220 kV Sriraman-Dandi-II	Dandi	12.09.1982	-	81.20	80.00	
16	220 kV Tallapelli-Nagarjunasagar-III	Nagarjunasagar	27.01.1985	-	15.00	4.00	
17	220 kV Tallapelli-Nagarjunasagar-I	Nagarjunasagar	05.08.1985	-	12.10	2.10	
18	220 kV Tallapelli-Nagarjunasagar-II	Nagarjunasagar	05.08.1985	-	12.10	2.10	
19	220 kV Nizampur Kachayilga Station-Sriraman	Nizampur Receiving Station	07.02.1989	-	90.00	4.00	
20	220 kV Nizampur-KTPS	KTPS	21.01.1992	-	125.60	64.43	
21	220 kV Tallapelli-Chidambur	Chidambur	21.07.2007	-	88.40	27.40	
22	220 kV Bodanekonda-Wanaparthy(LTS)	Wanaparthy(LTS)	29.10.2009	-	97.64	78.79	
23	220 kV Chilikakki-Suryapet	Suryapet	21.12.2014	-	62.30	59.30	
24	a) 220 kV Chilikakki-Nachapalli-II	Nachapalli	10.03.2010	05.12.2018	170.00	108.00	
	b) 220 kV Chilikakki-Pilichikala	Pilichikala	05.12.2018	-	78.78	66.78	
25	132 kV Chilikakki-Ramapuram	Ramapuram	21.10.1982	-	21.67	6.67	
26	132 kV Kamavaram Kota-Awarapet-I	Awarapet	09.06.1982	-	36.50	1.50	
27	132 kV Kamavaram Kota-Awarapet-II	Awarapet	09.06.1982	-	36.50	1.50	
28	132 kV Nagarjunasagar-SCPH	Nagarjunasagar	21.02.1983	-	13.70	7.70	
29	132 kV Chilikakki-Kannanur	Kannanur	24.12.1985	-	58.00	47.00	
30	132 kV Chilikakki-Bonakalla-I	Bonakalla	20.01.1987	-	20.00	2.80	
31	132 kV Chilikakki-Bonakalla-II	Bonakalla	20.01.1987	-	20.00	2.80	
32	132 kV A.P. Carides-Alampur-I	Alampur	17.05.2004	-	19.70	1.86	
33	132 kV A.P. Carides-Alampur-II	Alampur	06.09.2014	-	22.00	1.86	
34	132 kV Chilikakki-Madhira	Madhira	27.10.2001	-	28.00	7.00	
35	132 kV Chilikakki-Chamran	Chamran	02.12.2001	-	46.00	11.00	
36	132 kV Chilikakki-Sitapuram	Sitapuram	06.04.2004	-	17.00	2.50	
37	132 kV Chilikakki-Kothala	Kothala	10.06.2004	-	21.56	9.84	
38	132 kV Sitapuram-KCP	Sitapuram	10.09.2010	-	2.40	0.37	
39	132 kV Tangada-Wadapalli	Wadapalli	26.08.2010	-	29.34	2.16	
40	132 kV Pedapuralla-Wadapalli	Wadapalli	27.07.2014	-	45.58	2.26	
41	320 kV Tandur-Sedan	Tandur	08.02.2001	-	44.50	9.46	Telangana & Karnataka

Note: Line Data furnished by TSTRANSCO

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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)

Sl. No.	Name of Line	Telangana Substation	D.O.C	Termination Date of operation of the Line	Total Line Length (in Kilo-km)	the Line Telangana Portion (in Kilo-km)	Connecting States
1	400 kV Srirailam - Kurnool (SC)	Srirailam LB	06.03.2001	-	102.00	1.50	Telangana & Andhra Pradesh
2	400 kV Kalpaka-Aswapaka-I	Aswapaka	09.08.2017	-	264.50	25.50	
3	400 kV Kalpaka-Khammam-II	Khammam	18.05.2002	-	360.00	121.00	
4	400 kV VTPS- Suryapet-I	Suryapet	20.03.2016	-	129.00	56.96	
5	400 kV VTPS- Suryapet-II	Suryapet	14.04.2018	-	129.00	56.96	
6	400 kV Srirailam - Sattenapalli CK-I	Srirailam LB	12.02.2014	-	166.00	0.40	
7	400 kV Srirailam - Sattenapalli CK-II	Srirailam LB	12.02.2014	-	166.00	0.40	
8	400 kV Urvakonda-Vellore-I	Vellore	17.11.2016	-	196.95	73.60	
9	400 kV Urvakonda-Vellore-II	Vellore	18.11.2016	-	196.95	73.60	
10	400 kV Suryapet-Kamavaram Kota-I	Suryapet	20.10.2016	-	175.00	86.40	
11	400 kV Suryapet-Kamavaram Kota-II	Suryapet	20.10.2016	-	175.00	86.40	
12	220 kV Lower Silera-KTPS-I	KTPS	31.03.1987	-	141.17	81.00	
13	220 kV Lower Silera-KTPS-II	KTPS	31.03.1979	-	113.20	25.00	
14	220 kV Srirailam-Dindi-I	Dindi	12.09.1982	-	81.20	80.00	
15	a) 220 kV Srirailam-Dindi-II	Dindi	12.09.1982	26.07.2019	81.20	80.00	
	b) 220 kV Srirailam-Domalaperna	Domalaperma	26.07.2019	-	1.60	0.30	
16	220 kV Tallapelli-Nagarjunasagar-II	Nagarjunasagar	27.01.1985	-	15.00	4.00	
17	220 kV Tallapelli-Nagarjunasagar-I	Nagarjunasagar	05.08.1985	-	12.10	2.10	
18	220 kV Tallapelli-Nagarjunasagar-II	Nagarjunasagar	05.08.1985	-	12.10	2.10	
19	220 kV N'Sagar Receiving Station-Srirailam	N'Sagar Receiving Station	07.02.1989	-	90.00	4.00	
20	220 kV Nuzra-KTPS	KTPS	21.01.1992	-	125.60	64.45	
21	220 kV Tallapelli-Cholekurthy	Cholekurthy	21.07.2007	-	38.40	27.40	
22	220 kV Brahmanakota-Wanaparthy(LRS)	Wanaparthy(LRS)	29.10.2009	-	97.64	78.79	
23	220 kV Chilikakalu-Suryapet	Suryapet	21.12.2016	-	62.30	50.30	
24	220 kV Chilikakalu-Pulichimela	Pulichimela	05.12.2018	-	78.78	66.78	
25	132 kV Chilikakalu-Rangapuram	Rangapuram	21.10.1982	-	31.67	6.67	
26	132 kV Kamavaram Kota-Awarapet-I	Awarapet	09.06.1982	-	35.50	5.50	
27	132 kV Kamavaram Kota-Awarapet-II	Awarapet	09.06.1982	-	35.50	5.50	
28	132 kV Nagarjunasagar-BCTP-I	Nagarjunasagar	25.02.1983	-	13.70	7.70	
29	132 kV Chilikakalu-Kammarachi	Kammarachi	24.12.1985	-	58.00	47.00	
30	132 kV Chilikakalu-Bonakalli-I	Bonakalli	20.01.1987	-	20.00	2.80	
31	132 kV Chilikakalu-Bonakalli-II	Bonakalli	20.01.1987	-	20.00	2.80	
32	132 kV A.P.Carbides-Alampur-I	Alampur	17.05.2004	-	19.70	5.86	
33	132 kV A.P.Carbides-Alampur-II	Alampur	06.09.2014	-	22.00	5.86	
34	132 kV Chilikakalu-Madhira	Madhira	27.10.2001	-	28.00	7.00	
35	132 kV Chilikakalu-Khammam	Khammam	02.12.2001	-	46.00	35.00	
36	132 kV Chilikakalu-Sitapuram	Sitapuram	06.04.2004	-	17.00	2.50	
37	132 kV Chilikakalu-Kodada	Kodada	10.06.2004	-	21.56	9.84	
38	132 kV Sitapuram-KCP	Sitapuram	10.05.2010	-	2.40	0.37	
39	132 kV Tangada-Wadapalli	Wadapalli	26.08.2010	-	29.74	2.30	
40	132 kV Pidugumalla-Wadapalli	Wadapalli	22.02.2014	-	45.58	2.36	
41	220 kV Tandur-Sezam	Tandur	28.02.2001	-	44.50	9.46	Telangana & Karnataka

Note: Lines Data furnished by TSTRANSCO

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Annexure-I

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	Telangana Substation	D.O.C	Termination Date of operation of the Line	Total Line Length (in Ckt-km)	Length of the line Telangana Portion (in Ckt-km)	Connecting States
1	400 kV Srirailam - Kumool (SC)	Srirailam LB	06.03.2001	-	102.00	1.30	Telangana & Andhra Pradesh
2	400 kV Kalyana-Khammam-I	Khammam	10.05.2002	-	360.00	121.00	
3	400 kV Kalyana-Khammam-II	Khammam	10.05.2002	-	360.00	121.00	
4	400 kV VTPS- Malkajgiri Ckt-I	Malkajgiri	01.04.2013	-	260.95	189.32	
5	400 kV VTPS- Malkajgiri Ckt-II	Malkajgiri	13.02.2013	-	260.95	189.32	
6	400 kV Srirailam- Sattenapalli Ckt-I	Srirailam LB	12.02.2014	-	166.00	0.40	
7	400 kV Srirailam- Sattenapalli Ckt-II	Srirailam LB	12.02.2014	-	166.00	0.40	
8	220 kV Lower Silera-KTPS-I	KTPS	31.03.1967	-	141.17	81.00	
9	220 kV Lower Silera-KTPS-II	KTPS	31.03.1979	-	113.20	25.00	
10	220 kV Srirailam-Dindi-I	Dindi	12.09.1982	-	81.20	80.00	
11	220 kV Srirailam-Dindi-II	Dindi	12.09.1982	-	81.20	80.00	
12	220 kV Tallapalli-Nagarjunasagar-III	Nagarjunasagar	27.01.1985	-	15.00	4.00	
13	220 kV Tallapalli-Nagarjunasagar-I	Nagarjunasagar	05.08.1985	-	12.10	2.10	
14	220 kV Tallapalli-Nagarjunasagar-II	Nagarjunasagar	05.08.1985	-	12.10	2.10	
15	220 kV N. Sagar Receiving Station- Srirailam (SC) Line	N. Sagar Receiving Station	07.02.1989	-	90.00	4.00	
16	220 kV Nanna -KTPS	KTPS	21.01.1992	-	125.60	64.45	
17	220 kV Tallapalli- Chalakurthy	Chalakurthy	21.07.2007	-	38.40	27.40	
18	220 kV Brahmanakotkur-Wanaparthy (LIS)	Wanaparthy (LIS)	29.10.2009	-	97.64	78.79	
19	220 kV Chilikalhu-Narketpalli-I	Narketpalli	10.03.2010	-	120.00	108.00	
20	220 kV Chilikalhu-Narketpalli-II	Narketpalli	10.03.2010	-	120.00	108.00	
21	132 kV Chilikalhu- Ramapuram	Ramapuram	21.10.1982	-	21.67	6.67	
22	132 kV Kamavrapu Kota-Aswarapet-I	Aswarapet	09.06.1982	-	36.50	5.50	
23	132 kV Kamavrapu Kota-Aswarapet-II	Aswarapet	09.06.1982	-	36.50	5.50	
24	132 kV Nagarjunasagar-RCPII	Nagarjunasagar	25.02.1983	-	13.70	7.70	
25	132 kV Chilikalhu-Kusumanchi	Kusumanchi	24.12.1985	-	58.00	47.00	
26	132 kV Chilikalhu-Bonakalhu-I	Bonakalhu	20.01.1987	-	20.00	2.80	
27	132 kV Chilikalhu-Bonakalhu-II	Bonakalhu	20.01.1987	-	20.00	2.80	
28	132 kV A.P. Carbides-Alampur-I	Alampur	17.05.2004	-	19.70	5.86	
29	a) 132 kV Gadwal - A.P. Carbides	Gadwal		06.09.2014			
	b) 132 kV A.P. Carbides-Alampur-II	Alampur	06.09.2014	-	22.00	5.86	
30	132 kV Chilikalhu-Madhira	Madhira	27.10.2001	-	28.00	7.00	
31	132 kV Chilikalhu-Khammam	Khammam	02.12.2001	-	46.00	35.00	
32	132 kV Chilikalhu-Sitapuram	Sitapuram	06.04.2004	-	17.00	2.50	
33	132 kV Chilikalhu-Kodada	Kodada	10.05.2004	-	21.56	9.84	
34	132 kV Sitapuram-KCP	Sitapuram	10.05.2010	-	2.40	0.37	
35	132 kV Tangeda-Wadapalli	Wadapalli	26.08.2010	-	29.74	2.36	
36	132 kV Piduguralla-Wadapalli	Wadapalli	22.02.2014	-	45.58	2.36	
37	220 kV Tandur-Sadara	Tandur	28.02.2001	-	44.50	9.46	Telangana & Karnataka

Note: Lines Data furnished by TSTRANSCO

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Annexure-II

List of SRPC certified Natural Inter State Lines Owned by Telangana STU for FY 2015-16							
Sl. No.	Name of Line	Telangana Substation	D.D.C	TERMINATION Date of operation of the Line	Total Line Length (in Ckt-km)	Use Telangana Portion (in Ckt-km)	Connecting States
1	400 kV Srirajam - Kurumuk (SC)	Srirajam LB	06.03.2001	-	102.00	1.30	↑
2	400 kV Kalpaka-Khammam-I	Khammam	10.05.2002	-	360.00	121.00	
3	400 kV Kalpaka-Khammam-II	Khammam	10.05.2002	-	360.00	121.00	
4	a) 400 kV VTPS- Malkajgiri Ckt-I	Malkajgiri	01.04.2013	30.03.2016	260.95	189.32	
	b) 400 kV VTPS- Suryapeta Ckt-I	Suryapeta	30.03.2016	-	129.00	56.96	
5	400 kV VTPS- Malkajgiri Ckt-II	Malkajgiri	13.02.2013	-	260.95	189.32	
6	400 kV Srirajam- Sattenapalli Ckt-I	Srirajam LB	12.02.2014	-	166.00	0.40	
7	400 kV Srirajam- Sattenapalli Ckt-II	Srirajam LB	12.02.2014	-	166.00	0.40	
8	220 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	24.00	
10	220 kV Srirajam-Dindi-I	Dindi	12.09.1982	-	81.20	80.00	
11	220 kV Srirajam-Dindi-II	Dindi	12.09.1982	-	81.20	80.00	
12	220 kV Tallapathi-Nagarjunasagar-III	Nagarjunasagar	27.01.1985	-	15.00	4.00	
13	220 kV Tallapathi-Nagarjunasagar-I	Nagarjunasagar	05.08.1985	-	12.10	2.10	
14	220 kV Tallapathi-Nagarjunasagar-II	Nagarjunasagar	05.08.1985	-	12.10	2.10	
15	220 kV N.Sagar Receiving Station- Srirajam (SC) Line	N.Sagar Receiving Station	07.02.1989	-	90.00	4.00	↑ Telangana & Andhra Pradesh
16	220 kV Nuzvid-KTPS	KTPS	21.01.1992	-	125.00	64.45	
17	220 kV Tallapathi- Chalakurthy	Chalakurthy	21.07.2007	-	58.40	27.40	
18	220 kV Badamachalkor-Wanaparthy(LIS)	Wanaparthy(LIS)	29.10.2009	-	97.54	78.29	
19	220 kV Chilikakurthy-Narketpalli-I	Narketpalli	10.03.2010	-	120.00	109.00	
20	220 kV Chilikakurthy-Narketpalli-II	Narketpalli	10.03.2010	-	120.00	108.00	
21	132 kV Chilikakurthy-Ramapuram	Ramapuram	21.10.1982	-	21.57	6.67	
22	132 kV Kamavaram Kota-Azwaraopet-I	Azwaraopet	09.06.1982	-	36.30	3.30	
23	132 kV Kamavaram Kota-Azwaraopet-II	Azwaraopet	09.06.1982	-	36.30	3.30	
24	132 kV Nagarjunasagar-RCPSI	Nagarjunasagar	25.02.1983	-	13.70	7.70	
25	132 kV Chilikakurthy-Kuzumanchi	Kuzumanchi	24.12.1985	-	58.00	46.30	
26	132 kV Chilikakurthy-Bonakurthy-I	Bonakurthy	20.01.1987	-	20.00	2.80	
27	132 kV Chilikakurthy-Bonakurthy-II	Bonakurthy	20.01.1987	-	20.00	2.80	
28	132 kV A.P Carbides-Alampur-I	Alampur	17.03.2004	-	19.70	5.85	
29	132 kV A.P Carbides-Alampur-II	Alampur	06.09.2014	-	22.00	5.85	
30	132 kV Chilikakurthy-Madhira	Madhira	27.10.2001	-	28.00	7.00	
31	132 kV Chilikakurthy-Khammam	Khammam	02.12.2001	-	46.00	35.00	
32	132 kV Chilikakurthy-Sitapuram	Sitapuram	06.04.2004	-	17.00	2.50	
33	132 kV Chilikakurthy-Kodada	Kodada	10.06.2004	-	21.56	9.84	
34	132 kV Sitapuram-KCP	Sitapuram	10.05.2010	-	2.40	0.37	
35	132 kV Tangada-Wadapalli	Wadapalli	26.08.2010	-	29.74	2.36	
36	132 kV Pidugavalla-Wadapalli	Wadapalli	22.02.2014	-	45.58	2.36	
37	220 kV Tandur-Godam	Tandur	28.02.2001	-	44.50	9.40	Telangana & Karnataka

(Note: Lines Data furnished by TSTRANSCO)



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



भारत सरकार
केन्द्रीय विद्युत प्राधिकरण
दक्षिण क्षेत्रीय विद्युत समिति
29, रेस कोर्स क्रॉस रोड
बेंगलूर - 560 009



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



अ.स.सं. 1/2009-2008
150/9001-2008

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

सं. दक्षेविस /अ.स. 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

Sir,
Chief Engineer, SLDC, TSTRANSCO, Telangana, vide above referred letter, had 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

(टी वेंकटेश्वरलु/T. VENKATESWARLU)
अधीक्षक अभियंता(C) / Superintending Engineer(C)

H. Venkateswarlu
Chief Engineer/Control & RAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 032.


ANNEXURE I

Inter-State lines owned by Telangana STU as per the year 2016-17

S.NO	Substation	Name of the Line	Connected to
1	Srisaillam LB	400kV Sattennapalli Line-2	Andhra Pradesh
2	Srisaillam LB	400kV Sattennapalli Line-1	Andhra Pradesh
3	Srisaillam 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	Wanaparthi	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 Talapalli Line-1	Andhra Pradesh
15	N'Sagar	220kV Line Srisaillam 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 Srisaillam RB line II	Andhra Pradesh
22	Dindi	220kV Srisaillam 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 Pradesh
38	Alampur X Road	132kV AP Carbides Line	Andhra Pradesh
39	Gadwal	132kV AP Carbides Line	Andhra Pradesh

CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-I		(Rs. In lakhs)				
400 KV Srisaillam - Kurnool						
COB:	06.03.2001	2001				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	54.57					
Transmission line length in ckt km	1.5					
No. of bays	1					
Multiplication Factor	1					
Life in years	25					
Voltage kv	400					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		81.86	81.86	81.86	81.86	81.86
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		-	-	-	-	-
Gross Block Total		81.86	81.86	81.86	81.86	81.86
Average Gross Block		81.86	81.86	81.86	81.86	81.86
Depreciation						
Rate of depreciation		2.05%	2.05%	2.05%	2.05%	2.05%
Depreciable value	90%	73.67	73.67	73.67	73.67	73.67
Planned life as on 31.03.2019		18.00	19.00	20.00	21.00	22.00
Balance useful life of the asset		7.00	6.00	5.00	4.00	3.00
Remaining depreciable value		10.06	8.38	6.70	5.03	3.35
Cumulative Depreciation		63.61	65.29	66.97	68.64	70.32
Depreciation		1.68	1.68	1.68	1.68	1.68
Interest on loan						
Gross Normative Loan		57.30	57.30	57.30	57.30	57.30
Cumulative repayment upto previous year		57.30	57.30	57.30	57.30	57.30
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		24.56	24.56	24.56	24.56	24.56
Opening Equity		24.56	24.56	24.56	24.56	24.56
Average Equity		24.56	24.56	24.56	24.56	24.56
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		5.85	5.85	5.85	5.85	5.85
Interest on Working Capital						
Maintenance Spares	15% of O&M	1.94	5.11	5.29	5.47	5.67
O&M Expenses		2.74	2.84	2.94	3.04	3.15
Receivables		5.20	5.35	5.51	5.67	5.83
Total		12.88	13.30	13.74	14.18	14.65
Interest on Working Capital	13.50%	1.74	1.80	1.85	1.91	1.98
Annual Transmission Charges						
Depreciation		1.68	1.68	1.68	1.68	1.68
Interest on Loan		0.00	0.00	0.00	0.00	0.00
Return on Equity		5.85	5.85	5.85	5.85	5.85
Interest on Working Capital		1.74	1.80	1.85	1.91	1.98
O&M Expenses		32.90	34.06	35.26	36.50	37.78
Total		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	36.91
Norms for O&M per km	6/c	0.503	0.521	0.530	0.558	0.578


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 Hyderabad - 500 082.



 Chief Engineer/Committee & AAO,
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.


CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-IT (After LHO)

(Rs. in lakhs)

400kV Kalapaka-Khammam -T (After LHO) ASURAKA	10.03.2002	2003				
COD						
Rationalised cost of 400kv line (Rs. lakh per ckt km)	34					
Transmission Line length in ckt km	8.5					
No. of bays	1					
Multiplication Factor	1					
Life in years	25					
Voltage kv	400					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		289.00	289.00	289.00	289.00	289.00
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		-	-	-	-	-
Gross Block Total		289.00	289.00	289.00	289.00	289.00
Average Gross Block		289.00	289.00	289.00	289.00	289.00
Depreciation						
Rate of depreciation		2.05%	2.05%	2.05%	2.05%	2.05%
Depreciable value	90%	260.10	260.10	260.10	260.10	260.10
Elapsed life as on 31.03.2019		16.00	17.00	18.00	19.00	20.00
Balance useful life of the asset		9.00	8.00	7.00	6.00	5.00
Remaining depreciable value		52.82	46.90	40.97	35.05	29.12
Cumulative Depreciation		207.28	213.20	219.13	225.05	230.98
Depreciation		5.92	5.92	5.92	5.92	5.92
Interest on Loan						
Gross Normative Loan		202.30	202.30	202.30	202.30	202.30
Cumulative repayment upto previous year		202.30	202.30	202.30	202.30	202.30
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		86.70	86.70	86.70	86.70	86.70
Opening Equity		86.70	86.70	86.70	86.70	86.70
Average Equity		86.70	86.70	86.70	86.70	86.70
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		20.66	20.66	20.66	20.66	20.66
Interest on Working Capital						
Maintenance Spares	15% of O&M	5.95	6.15	6.37	6.59	6.83
O&M Expenses		3.30	3.42	3.54	3.66	3.79
Receivables		8.46	8.64	8.83	9.02	9.22
Total		17.71	18.22	18.74	19.28	19.84
Interest on Working Capital	13.50%	2.39	2.46	2.53	2.60	2.68
Annual Transmission Charges						
Depreciation		5.92	5.92	5.92	5.92	5.92
Interest on Loan		0.00	0.00	0.00	0.00	0.00
Return on Equity		20.66	20.66	20.66	20.66	20.66
Interest on Working Capital		2.39	2.46	2.53	2.60	2.68
O&M Expenses		39.64	41.03	42.42	43.96	45.50
Total		68.61	70.07	71.59	73.18	74.76
Norms for O&M per bay	400KV	32.15	33.28	34.45	35.66	36.91
Norms for O&M per km	13/C	0.881	0.912	0.944	0.977	1.011


 Financial Adviser and Chief
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 Hyderabad - 500 082.


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

CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-III(After L.I.O.) :

(Rs. In lakhs)

400kV Kalapaka-Khammam -II(After L.I.O.)						
C.O.D:	10.05.2002	2003				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	34					
Transmission Line length in ckt km	121					
No. of bays	1					
Multiplication Factor	1					
Life in years	25					
Voltage kv	400					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		4114.00	4114.00	4114.00	4114.00	4114.00
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		-	-	-	-	-
Gross Block Total		4114.00	4114.00	4114.00	4114.00	4114.00
Average Gross Block		4114.00	4114.00	4114.00	4114.00	4114.00
Depreciation						
Rate of depreciation		2.05%	2.05%	2.05%	2.05%	2.05%
Depreciable value	90%	3702.60	3702.60	3702.60	3702.60	3702.60
Elapsed life as on 31.03.2019		16.00	17.00	18.00	19.00	20.00
Balance useful life of the asset		9.00	8.00	7.00	6.00	5.00
Remaining depreciable value		738.46	654.13	569.79	485.45	401.12
Cumulative Depreciation		2964.14	3048.47	3132.81	3217.15	3301.49
Depreciation		84.34	84.34	84.34	84.34	84.34
Interest on loan						
Gross Normative Loan		2879.80	2879.80	2879.80	2879.80	2879.80
Cumulative repayment upto previous year		2879.80	2879.80	2879.80	2879.80	2879.80
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		1234.20	1234.20	1234.20	1234.20	1234.20
Opening Equity		1234.20	1234.20	1234.20	1234.20	1234.20
Average Equity		1234.20	1234.20	1234.20	1234.20	1234.20
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		294.06	294.06	294.06	294.06	294.06
Interest on Working Capital						
Maintenance Spares	15% of O&M	13.95	14.45	14.95	15.48	16.03
O&M Expenses		7.75	8.03	8.31	8.60	8.90
Receivables		59.47	59.90	60.33	60.79	61.26
Total		81.17	82.37	83.59	84.86	86.19
Interest on Working Capital	13.50%	10.96	11.12	11.28	11.46	11.64
Annual Transmission Charges						
Depreciation		84.34	84.34	84.34	84.34	84.34
Interest on Loan		0.00	0.00	0.00	0.00	0.00
Return on Equity		294.06	294.06	294.06	294.06	294.06
Interest on Working Capital		10.96	11.12	11.28	11.46	11.64
O&M Expenses		93.01	96.32	99.67	103.18	106.85
Total		482.36	485.83	489.35	493.03	496.88
Norms for O&M per bay	400KV	32.15	33.26	34.45	35.66	36.91
Norms for O&M per km	S/C	0.503	0.521	0.539	0.558	0.578

[Signature]
Financial Adviser and Chief
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Hyderabad - 500 082.


[Signature]
Chief Engineer/Comm & RAC
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CALCULATION OF ANNUAL TRANSMISSION CHARGES

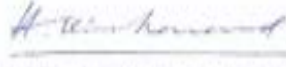
Asset-IV&V:

(Rs. in lakhs)

400kV VTPS-Malkaram - Feeder I & II (after ERO) SUB-APET-1 & II						
COB:	01.04.2013	2014				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	94.67					
Transmission Line length in ckt km	54.66					
No. of bays	2					
Multiplication Factor	1.39					
Life in years	25					
Voltage kv	400					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		7192.78	7192.78	7192.78	7192.78	7192.78
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		-	-	-	-	-
Gross Block Total		7192.78	7192.78	7192.78	7192.78	7192.78
Average Gross Block		7192.78	7192.78	7192.78	7192.78	7192.78
Depreciation						
Rate of depreciation		5.28%	5.28%	5.28%	5.28%	5.28%
Depreciable value	90%	6473.50	6473.50	6473.50	6473.50	6473.50
Elapsed life as on 31.03.2019		5.00	6.00	7.00	8.00	9.00
Balance useful life of the asset		20.00	19.00	18.00	17.00	16.00
Remaining depreciable value		4194.83	3815.05	3435.27	3055.49	2675.71
Cumulative Depreciation		2278.67	2658.45	3038.23	3418.01	3797.79
Depreciation		379.78	379.78	379.78	379.78	379.78
Interest on loan						
Gross Normative Loan		5034.95	5034.95	5034.95	5034.95	5034.95
Cumulative repayment upto previous year		1808.89	2278.67	2658.45	3038.23	3418.01
Net loan - opening		3136.05	2756.27	2376.49	1996.72	1616.94
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.00
Repayment during the year		379.78	379.78	379.78	379.78	379.78
Net loan - closing		2756.27	2376.49	1996.72	1616.94	1237.16
Average Loan		2946.16	2566.38	2186.61	1806.83	1427.05
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	11.00%	11.00%
Interest		324.08	282.30	240.53	198.75	156.98
Return on Equity						
Gross Notional Equity		2157.83	2157.83	2157.83	2157.83	2157.83
Opening Equity		2157.83	2157.83	2157.83	2157.83	2157.83
Average Equity		2157.83	2157.83	2157.83	2157.83	2157.83
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		514.12	514.12	514.12	514.12	514.12
Interest on Working Capital						
	15% of O&M					
Maintenance Spares		16.87	17.46	18.07	18.71	19.36
O&M Expenses		9.59	9.70	10.04	10.39	10.76
Reservables		167.25	162.52	157.82	153.12	148.45
Total		193.49	189.69	185.93	182.23	178.57
Interest on Working Capital	13.50%	26.12	25.61	25.10	24.60	24.11
Annual Transmission Charges						
Depreciation		379.78	379.78	379.78	379.78	379.78
Interest on Loan		324.08	282.30	240.53	198.75	156.98
Return on Equity		514.12	514.12	514.12	514.12	514.12
Interest on Working Capital		26.12	25.61	25.10	24.60	24.11
O&M Expenses		112.46	116.41	120.50	124.72	129.08
Total		1356.55	1318.22	1280.02	1241.97	1204.06
Norms for O&M per bay	400KV	32.15	33.28	34.43	35.66	36.91
Norms for O&M per km	D/C	0.881	0.912	0.944	0.977	1.011


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 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.


CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-VI & VII :

(Rs. In lakhs)

400 KV Srisaifam - Nattenapalli Ckt 1& II						
CCTD:	23.10.2000	2000				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	20.71					
Transmission Line length in ckt km	0.40					
No. of bays	2					
Multiplication Factor	1.39					
Life in years	25					
Voltage kv	400					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		11.51	11.51	11.51	11.51	11.51
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		-	-	-	-	-
Gross Block Total		11.51	11.51	11.51	11.51	11.51
Average Gross Block		11.51	11.51	11.51	11.51	11.51
Depreciation						
Rate of depreciation		2.05%	2.05%	2.05%	2.05%	2.05%
Depreciable value	90%	10.36	10.36	10.36	10.36	10.36
Elapsed life as on 31.03.2019		19.00	20.00	21.00	22.00	23.00
Balance 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
Cumulative Depreciation		9.18	9.47	9.66	9.89	10.13
Depreciation		0.24	0.24	0.24	0.24	0.24
Interest on loan						
Gross Normative Loan		8.06	8.06	8.06	8.06	8.06
Cumulative repayment upto previous year		8.06	8.06	8.06	8.06	8.06
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 National Equity		3.45	3.45	3.45	3.45	3.45
Opening Equity		3.45	3.45	3.45	3.45	3.45
Average Equity		3.45	3.45	3.45	3.45	3.45
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		0.82	0.82	0.82	0.82	0.82
Interest on Working Capital						
Maintenance Spares	15% of O&M	9.70	10.04	10.39	10.76	11.13
O&M Expenses		5.19	5.58	5.77	5.98	6.19
Receivables		8.50	8.79	9.09	9.41	9.73
Total		23.39	24.41	25.26	26.14	27.05
Interest on Working Capital	13.50%	3.16	3.29	3.41	3.53	3.65
Annual Transmission Charges						
Depreciation		0.24	0.24	0.24	0.24	0.24
Interest on Loan		0.00	0.00	0.00	0.00	0.00
Return on Equity		0.82	0.82	0.82	0.82	0.82
Interest on Working Capital		3.16	3.29	3.41	3.53	3.65
O&M Expenses		64.65	66.92	69.28	71.71	74.22
Total		68.90	71.28	73.75	76.30	79.94
Norms for O&M per bay	400KV	32.15	33.28	34.45	35.66	36.91
Norms for O&M per km	D/C	0.081	0.912	0.944	0.977	1.011


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CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-VIII:

(Rs. In lakhs)


220 KV Lower Sileru - KTPS - I						
COD:	31.03.1967	1967				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	0					
Transmission Line length in ckt km	81.00					
No. of bays	1					
Multiplication Factor	0.36					
Life in years	25					
Voltage kv	220					
Particulars		2019-20	2020-21	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 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
Depreciation						
Rate 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 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 loan						
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		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
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						
Maintenance Spares	15% of O&M	6.44	6.65	6.90	7.13	7.39
O&M Expenses		3.58	3.70	3.83	3.96	4.10
Receivables		5.23	5.74	5.95	6.15	6.32
Total		15.29	16.09	16.68	17.28	17.86
Interest on Working Capital	13.80%	2.10	2.17	2.25	2.33	2.41
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		2.10	2.17	2.25	2.33	2.41
O&M Expenses		42.92	44.36	45.99	47.36	49.28
Total		45.02	46.53	48.24	49.69	51.66
Norms for O&M per bay	220KV	22.51	23.30	24.12	24.96	25.84
Norms for O&M per km	S/C	0.252	0.260	0.270	0.279	0.289


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CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-IX :		(Rs. In lakhs)				
220 KV Lower Sileru - KTI% - II						
COD:	31.03.1979	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					
Voltage kv	1					
Particulars		2019-20	2020-21	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 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
Depreciation						
Rate 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 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 loan						
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		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
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						
Maintenance Spares	15% of O&M	4.32	4.47	4.63	4.79	4.96
O&M Expenses		2.40	2.48	2.57	2.66	2.76
Receivables		3.73	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	1.46	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	1.51	1.56	1.62
O&M Expenses		28.81	29.80	30.87	31.94	33.07
Total		30.22	31.26	32.38	33.50	34.68
Norms for O&M per bay	220KV	22.51	23.30	24.12	24.96	25.84
Norms for O&M per km	5/C	0.252	0.260	0.270	0.279	0.289


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CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-X & XI:

(Rs. In lakhs)

220 KV Srirailam - Dindi - I						
COD:	12.09.1982	1983				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	0					
Transmission Line length in ckt km	80.00					
No. of bays	1					
Multiplication Factor	0.57					
Life in years	25					
Voltage kv	220					
Particulars		2019-20	2020-21	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 (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
Depreciation						
Rate of depreciation						
Depreciable value	90%	0.00	0.00	0.00	0.00	0.00
Elapsed life as on 31.03.2014		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		0.00	0.00	0.00	0.00	0.00
Depreciation		0.00	0.00	0.00	0.00	0.00
Interest on loan						
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		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 (%)		9.98%	9.98%	9.98%	9.98%	9.98%
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	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		23.70%	23.70%	23.70%	23.70%	23.83%
Return on Equity		0.00	0.00	0.00	0.00	0.00
Interest on Working Capital						
Maintenance Spares	15% of O&M	8.18	8.19	8.47	8.77	9.07
O&M Expenses		4.55	4.55	4.70	4.87	5.04
Reverentials		7.06	7.06	7.30	7.56	7.82
Total		19.79	19.80	20.47	21.21	21.94
Interest on Working Capital	13.50%	2.67	2.67	2.76	2.86	2.96
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		2.67	2.67	2.76	2.86	2.96
O&M Expenses		54.55	54.58	56.44	58.48	60.48
Total		57.22	57.25	59.20	61.34	63.44
Norms for O&M per bay	220KV	22.51	23.30	24.12	24.96	25.84
Norms for O&M per km	D/C	0.377	0.391	0.404	0.419	0.433


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CALCULATION OF ANNUAL TRANSMISSION CHARGES

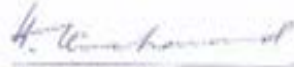
Asset-XII :

(Rs. In lakhs)

220 KV Tallapalli - Nagarjunanagar - III						
CID:	27.01.1983	1983				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	0					
Transmission line length in ckt km	4.00					
No. of bays	1					
Multiplication Factor	0.36					
Life in years	25					
Voltage kv	220					
Particulars		2019-20	2020-21	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 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
Depreciation						
Rate 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 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 loan						
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		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
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						
Maintenance Squares	15% of C&M	3.53	3.65	3.78	3.91	4.05
C&M Expenses		3.96	3.01	2.10	2.12	2.35
Receivables		3.04	3.15	3.26	3.37	3.49
Total		8.53	8.81	9.14	9.40	9.79
Interest on Working Capital	13.50%	1.15	1.19	1.23	1.28	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		1.15	1.19	1.23	1.28	1.32
C&M Expenses		23.52	24.34	25.20	26.08	27.00
Total		24.67	25.53	26.43	27.36	28.32
Norms for C&M per bay	220KV	22.61	23.30	24.12	24.96	25.84
Norms for C&M per km	S/C	0.252	0.260	0.270	0.279	0.289


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CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XIII & XIV :

(Rs. in lakhs)

220 KV Tallapalli - Nagarjunasagar - I & II						
COD:	05.08.1983	1986				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	0					
Transmission Line length in ckt km	2.10					
No. of days	2					
Multiplication Factor	0.57					
Life in years	25					
Voltage kv	220					
Particulars		2019-20	2020-21	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 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
Depreciation						
Rate 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 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 loan						
Gross Notional 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
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						
Maintenance Spares	1% of O&M	7.03	7.28	7.53	7.80	8.07
CM&M Expenses		3.91	4.04	4.19	4.33	4.48
Receivables		6.06	6.28	6.50	6.72	6.96
Total		17.00	17.60	18.22	18.85	19.51
Interest on Working Capital	13.50%	2.29	2.38	2.46	2.54	2.63
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		2.29	2.38	2.46	2.54	2.63
O&M Expenses		46.87	48.87	50.22	51.97	53.80
Total		49.17	50.89	52.68	54.52	56.44
Norms for CM&M per bay	220KV	27.51	27.90	28.12	28.96	29.84
Norms for CM&M per km	D/C	0.881	0.912	0.941	0.972	1.011


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CALCULATION OF ANNUAL TRANSMISSION CHARGES

Annex-XV :

(Rs. In lakhs)

220 KV N Sagar Receiving Station - Nrisaiah (SC) Line		2019-20	2020-21	2021-22	2022-23	2023-24
CXID:						
Rationalised cost of 400kv line (Rs. lakh per ckt km)	07/02/1989	1989				
Transmission Line length in ckt km	0					
No. of bays	4.00					
Multiplication Factor	1					
Life in years	0.36					
Voltage kv	25					
	220					
Particulars		2019-20	2020-21	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 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
Depreciation						
Rate 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 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 loan						
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		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
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						
Maintenance Spares	15% of O&M	3.53	3.65	3.78	3.91	4.05
O&M Expenses		1.96	2.03	2.10	2.17	2.25
Receivables		3.04	3.15	3.26	3.37	3.49
Total		8.53	8.83	9.14	9.46	9.79
Interest on Working Capital	13.50%	1.15	1.19	1.25	1.28	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		1.15	1.19	1.25	1.28	1.32
O&M Expenses		23.52	24.34	25.20	26.08	27.00
Total		24.67	25.53	26.45	27.35	28.32
Norms for O&M per bay	220KV	22.51	23.30	24.12	24.96	25.84
Norms for O&M per km	S/C	0.252	0.260	0.270	0.279	0.289


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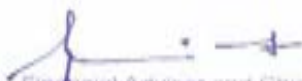

 Chief Engineer (Comm & RAC)
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CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XVI:

(Rs. In lakhs)

220 KV Nanna - KTH						
CODE	21.01.1992	1992				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	29.69					
Transmission Line length in ckt km	64.35					
No. of bays	1					
Multiplication Factor	0.36					
Life in years	25					
Voltage kv	220					
Particulars		2019-20	2020-21	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 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
Depreciation						
Rate of depreciation		0.00%	0.00%	0.00%	0.00%	0.00%
Depreciable value	90%	0.00	0.00	0.00	0.00	0.00
Elapsed life as on 31.03.2019		27.00	28.00	29.00	30.00	31.00
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		0.00	0.00	0.00	0.00	0.00
Depreciation		0.00	0.00	0.00	0.00	0.00
Interest on loan						
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		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 Normative 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						
Maintenance Spares	15% of O&M	5.81	6.01	6.23	6.44	6.67
O&M Expenses		3.23	3.34	3.46	3.58	3.71
Receivables		5.01	5.18	5.37	5.55	5.75
Total		14.05	14.53	15.06	15.57	16.13
Interest on Working Capital	13.50%	1.90	1.96	2.03	2.10	2.18
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		1.90	1.96	2.03	2.10	2.18
O&M Expenses		38.75	40.06	41.87	43.94	46.47
Total		40.65	42.02	43.93	46.04	48.64
Norms for O&M per bay	220KV	22.51	23.40	24.12	24.96	25.84
Norms for O&M per km	8/C	0.392	0.390	0.370	0.379	0.389


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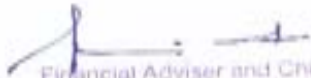

 Chief Engineer/Genl. & RAO
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CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XVII:

(Rs. in lakhs)

220 kV Tandur - Budam						
COD:	28.02.2001	2001				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	54.57					
Transmission Line length in ckt km	33.60					
No. of bays	1					
Multiplication factor	0.36					
Life in years	25					
Voltage kv	220					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		660.08	660.08	660.08	660.08	660.08
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		-	-	-	-	-
Gross Block Total		660.08	660.08	660.08	660.08	660.08
Average Gross Block		660.08	660.08	660.08	660.08	660.08
Depreciation						
Rate of depreciation		2.05%	2.05%	2.05%	2.05%	2.05%
Depreciable value	90%	594.07	594.07	594.07	594.07	594.07
Elapsed life as on 31.03.2019		18.00	19.00	20.00	21.00	22.00
Balance useful life of the asset		7.00	6.00	5.00	4.00	3.00
Remaining depreciable value		81.12	67.39	54.06	40.54	27.00
Cumulative Depreciation		512.95	526.48	540.01	553.54	567.07
Depreciation		13.53	13.53	13.53	13.53	13.53
Interest on loan						
Gross Normative Loan		462.06	462.06	462.06	462.06	462.06
Cumulative repayment upto previous year		462.06	462.06	462.06	462.06	462.06
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		198.02	198.02	198.02	198.02	198.02
Opening Equity		198.02	198.02	198.02	198.02	198.02
Average Equity		198.02	198.02	198.02	198.02	198.02
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		47.18	47.18	47.18	47.18	47.18
Interest on Working Capital						
Maintenance Spares	15% of C&M	4.65	4.81	4.98	5.15	5.33
O&M Expenses		2.58	2.67	2.77	2.86	2.96
Revercation		11.62	11.76	11.91	12.06	12.21
Total		18.85	19.23	19.65	20.07	20.51
Interest on Working Capital	13.80%	2.54	2.60	2.65	2.71	2.77
Annual Transmission Charges						
Depreciation		13.53	13.53	13.53	13.53	13.53
Interest on Loan		0.00	0.00	0.00	0.00	0.00
Return on Equity		47.18	47.18	47.18	47.18	47.18
Interest on Working Capital		2.54	2.60	2.65	2.71	2.77
O&M Expenses		30.98	32.04	33.19	34.33	35.45
Total		94.23	95.34	96.56	97.78	99.03
Norms for O&M per bay	220KV	22.51	23.30	24.12	24.96	25.84
Norms for O&M per km	5/c	0.943	0.960	0.970	0.979	0.989


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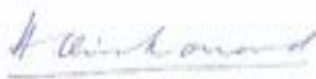
CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XVIII :

(Rs. in lakhs)

220 KV Tallapalli - Chalakurthy						
COD:	21.07.2007	2008				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	47.04					
Transmission Line length in ckt km	27.40					
No. of bays	1					
Multiplication Factor	0.36					
Life in years	20					
Voltage kv	220					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		464.00	464.00	464.00	464.00	464.00
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		-	-	-	-	-
Gross Block Total		464.00	464.00	464.00	464.00	464.00
Average Gross Block		464.00	464.00	464.00	464.00	464.00
Depreciation						
Rate of depreciation		5.28%	2.05%	2.05%	2.05%	2.05%
Depreciable value	90%	417.60	417.60	417.60	417.60	417.60
Elapsed life as on 31.03.2019		11.00	12.00	13.00	14.00	15.00
Balance 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	85.56
Cumulative Depreciation		293.99	303.50	313.02	322.53	332.04
Depreciation		24.50	9.51	9.51	9.51	9.51
Interest on loan						
Gross Normative Loan		324.80	324.80	324.80	324.80	324.80
Cumulative repayment upto previous year		269.49	293.99	303.50	313.02	322.53
Net loan - opening		55.31	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	9.51	9.51	2.27
Net loan - closing		30.81	21.30	11.79	2.27	0.00
Average Loan		43.06	26.05	16.54	2.03	1.14
Weighted average rate of interest on loan (%)		11.83%	11.80%	11.00%	11.00%	11.00%
Interest		4.74	2.87	1.82	0.77	0.13
Return on Equity						
Gross 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	139.20
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		33.17	33.17	33.17	33.17	33.17
Interest on Working Capital						
Maintenance Spares	15% of C&M	4.41	4.56	4.73	4.89	5.06
C&M Expenses		2.45	2.54	2.63	2.72	2.81
Receivables		11.63	9.65	9.66	9.67	9.73
Total		16.49	16.75	17.01	17.27	17.61
Interest on Working Capital	13.50%	2.50	2.76	2.30	2.33	2.38
Annual Transmission Charges						
Depreciation		24.50	9.51	9.51	9.51	9.51
Interest on Loan		4.74	2.87	1.82	0.77	0.13
Return on Equity		33.17	33.17	33.17	33.17	33.17
Interest on Working Capital		2.50	2.26	2.30	2.33	2.38
C&M Expenses		29.41	30.42	31.52	32.60	33.76
Total		94.31	78.23	78.31	78.39	78.94
Norms for C&M per bay	220KV	22.51	23.30	24.12	24.96	25.84
Norms for C&M per km	5/c	0.252	0.260	0.270	0.279	0.289


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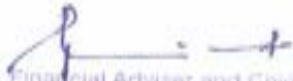

 Chief Engineer/Control & R/C
 TSTRANSCO, Vidyal Soudha,
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CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XIX :

(Rs. In lakhs)

220 KV Brahminakotkur - Wanaparthy (I.15)						
COD:		29.10.2009	2010			
Rationalised cost of 400kv line (Rs. lakh per ckt km)		48.44				
Transmission Line length in ckt km		78.79				
No. of bays		1				
Multiplication Factor		0.36				
Life in years		25				
Voltage kv		220				
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		1373.97	1373.97	1373.97	1373.97	1373.97
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		-	-	-	-	-
Gross Block Total		1373.97	1373.97	1373.97	1373.97	1373.97
Average Gross Block		1373.97	1373.97	1373.97	1373.97	1373.97
Depreciation						
Rate of depreciation		5.28%	5.28%	5.28%	5.28%	5.28%
Depreciable value	90%	1236.57	1236.57	1236.57	1236.57	1236.57
Elapsed life as on 31.03.2019		9.00	10.00	11.00	12.00	13.00
Balance useful life of the asset		16.00	15.00	14.00	13.00	12.00
Remaining depreciable value		211.12	436.57	566.03	537.86	599.69
Cumulative Depreciation		725.46	798.00	870.53	898.71	926.88
Depreciation		72.55	72.55	72.55	72.55	72.55
Interest on loan						
Gross Normative Loan		961.78	961.78	961.78	961.78	961.78
Cumulative repayment upto previous year		652.91	725.46	798.00	870.55	898.71
Net loan - opening		308.87	236.32	163.78	91.21	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	72.55	72.55
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%	11.00%	11.00%
Interest		29.99	22.01	14.03	8.49	5.39
Return on Equity						
Gross Notional Equity		412.19	412.19	412.19	412.19	412.19
Opening Equity		412.19	412.19	412.19	412.19	412.19
Average Equity		412.19	412.19	412.19	412.19	412.19
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		98.21	98.21	98.21	98.21	98.21
Interest on Working Capital						
Maintenance Spares	15% of O&M	6.35	6.52	6.81	7.04	7.39
O&M Expenses		3.53	3.65	3.78	3.91	4.05
Receivables		30.65	29.83	29.04	27.98	27.81
Total		40.53	40.00	39.63	38.93	39.25
Interest on Working Capital	13.50%	5.47	5.41	5.35	5.30	5.31
Annual Transmission Charges						
Depreciation		72.55	72.55	72.55	72.55	72.55
Interest on Loan		29.99	22.01	14.03	8.49	5.39
Return on Equity		98.21	98.21	98.21	98.21	98.21
Interest on Working Capital		5.47	5.41	5.35	5.30	5.31
O&M Expenses		42.37	43.79	45.39	46.94	48.61
Total		248.59	241.95	235.52	231.39	230.06
Norms for O&M per bay	220KV	22.51	23.30	24.12	24.96	25.84
Norms for O&M per km	S/C	0.262	0.260	0.270	0.279	0.289


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CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XX:

(Rs. in lakhs)

220kV Chilikallu-Narketpally - II(After-LEO)- SURVEY						
COD:	29.03.1999	1999				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	20.71					
Transmission Line length in ckt km	38.62					
No. of bays	1					
Multiplication Factor	0.36					
Life in years	25					
Voltage kv	220					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		287.94	287.94	287.94	287.94	287.94
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation						
Gross Block Total		287.94	287.94	287.94	287.94	287.94
Average Gross Block		287.94	287.94	287.94	287.94	287.94
Depreciation						
Rate of depreciation		2.05%	2.05%	2.05%	2.05%	2.05%
Depreciable value	90%	259.14	259.14	259.14	259.14	259.14
Elapsed life as on 31.03.2014		20.00	21.00	22.00	23.00	24.00
Balance useful life of the asset		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		231.13	237.04	242.94	248.84	254.74
Depreciation		5.90	5.90	5.90	5.90	5.90
Interest on loan						
Gross Normative Loan		201.55	201.55	201.55	201.55	201.55
Cumulative repayment upto previous year		201.55	201.55	201.55	201.55	201.55
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 National Equity		86.38	86.38	86.38	86.38	86.38
Opening Equity		86.38	86.38	86.38	86.38	86.38
Average Equity		86.38	86.38	86.38	86.38	86.38
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		20.58	20.58	20.58	20.58	20.58
Interest on Working Capital						
Maintenance Spares	15% of O&M	4.84	5.00	5.18	5.36	5.53
O&M Expenses		2.69	2.78	2.88	2.98	3.08
Receivables		7.49	7.63	7.79	7.94	8.11
Total		15.02	15.41	15.85	16.28	16.74
Interest on Working Capital	13.50%	2.03	2.08	2.14	2.20	2.26
Annual Transmission Charges						
Depreciation		5.90	5.90	5.90	5.90	5.90
Interest on Loan		0.00	0.00	0.00	0.00	0.00
Return on Equity		20.58	20.58	20.58	20.58	20.58
Interest on Working Capital		2.03	2.08	2.14	2.20	2.26
O&M Expenses		32.24	33.34	34.55	35.73	37.00
Total		60.75	61.91	63.17	64.42	65.74
Norms for O&M per bay	220KV	22.51	23.30	24.12	24.96	25.84
Norms for O&M per km	W/C	0.252	0.260	0.270	0.279	0.289


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 Chief Engineer/Comm & RAC
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CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XXI :

(Rs. In lakhs)

220kV Chillakallu-Narketpally - II(After-BT-O)	PULICHINTALA					
COB:	29.03.1999	1999				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	20.71					
Transmission Line length in ckt km	18.08					
No. of bays	1					
Multiplication Factor	0.36					
Life in years	25					
Voltage kv	220					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		134.80	134.80	134.80	134.80	134.80
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		-	-	-	-	-
Gross Block Total		134.80	134.80	134.80	134.80	134.80
Average Gross Block		134.80	134.80	134.80	134.80	134.80
Depreciation						
Rate of depreciation		2.05%	2.05%	2.05%	2.05%	2.05%
Depreciable value	90%	121.32	121.32	121.32	121.32	121.32
Elapsed life as on 31.03.2019		20.00	21.00	22.00	23.00	24.00
Balance useful life of the asset		5.00	4.00	3.00	2.00	1.00
Remaining depreciable value		14.95	12.19	9.43	6.66	3.90
Cumulative Depreciation		106.36	109.13	111.89	114.65	117.42
Depreciation		2.76	2.76	2.76	2.76	2.76
Interest on loan						
Gross Normative Loan		94.36	94.36	94.36	94.36	94.36
Cumulative repayment upto previous year		94.36	94.36	94.36	94.36	94.36
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		40.44	40.44	40.44	40.44	40.44
Opening Equity		40.44	40.44	40.44	40.44	40.44
Average Equity		40.44	40.44	40.44	40.44	40.44
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		9.63	9.63	9.63	9.63	9.63
Interest on Working Capital						
Maintenance Spares	15% of O&M	4.06	4.20	4.35	4.50	4.66
O&M Expenses		2.26	2.33	2.42	2.50	2.59
Receivables		5.08	5.18	5.31	5.44	5.57
Total		11.37	11.71	12.07	12.44	12.82
Interest on Working Capital	13.50%	1.54	1.58	1.63	1.68	1.73
Annual Transmission Charges						
Depreciation		2.76	2.76	2.76	2.76	2.76
Interest on Loan		0.00	0.00	0.00	0.00	0.00
Return on Equity		9.63	9.63	9.63	9.63	9.63
Interest on Working Capital		1.54	1.58	1.63	1.68	1.73
O&M Expenses		27.07	28.00	29.00	30.00	31.07
Total		41.00	41.98	43.03	44.08	45.19
Norms for O&M per bay	220kV	22.51	23.30	24.12	24.96	25.84
Norms for O&M per km	5/C	0.252	0.260	0.270	0.279	0.289


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CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XXII)

(Rs. in lakhs)

132 KV Chittakatti - Ramapuram						
COD:	21.10.1982	1983				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	0					
Transmission Line length in ckt km	6.67					
No. of bays	1					
Multiplication Factor	0.43					
Life in years	35					
Voltage kv	132					
Particulars		2019-20	2020-21	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 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
Depreciation						
Rate 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 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 loan						
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		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
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						
Maintenance Spares	15% of O&M	2.79	2.89	2.99	3.09	3.20
O&M Expenses		1.55	1.60	1.66	1.72	1.78
Receivables		2.41	2.49	2.58	2.67	2.76
Total		6.74	6.98	7.23	7.48	7.74
Interest on Working Capital	15.50%	0.91	0.94	0.98	1.01	1.05
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		0.91	0.94	0.98	1.01	1.05
O&M Expenses		18.59	19.25	19.92	20.62	21.35
Total		19.51	20.19	20.90	21.63	22.39
Norms for O&M per bay	132KV	16.08	16.64	17.23	17.83	18.46
Norms for O&M per km	132KV	0.377	0.391	0.404	0.419	0.433


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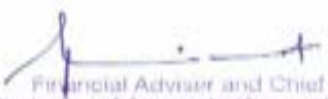

 Chief Engineer/Cumini & RAO
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CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XXIII & XXIV :

(Rs. In lakhs)

132 KV Kamavarapu Kota - Anwarapet - I & II						
C(1):	09.06.1982	1983				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	0					
Transmission Line length in ckt km	5.94					
No. of bays	2					
Multiplication factor	0.43					
Life in years	25					
Voltage kv	132					
Particulars		2019-20	2020-21	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 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
Depreciation						
Rate 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 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 loan						
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		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 Normative 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						
Maintenance Spares	15% of O&M	5.14	5.31	5.50	5.69	5.90
O&M Expenses		2.85	2.92	3.06	3.16	3.28
Receivables		4.43	4.58	4.75	4.91	5.08
Total		12.42	12.81	13.30	13.77	14.25
Interest on Working Capital	13.50%	1.68	1.73	1.80	1.86	1.92
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	1.73	1.80	1.86	1.92
O&M Expenses		34.73	35.43	36.68	37.96	39.30
Total		36.41	37.17	38.48	39.82	41.23
Norms for O&M per bay	132KV	16.08	16.64	17.23	17.83	18.46
Norms for O&M per km	15/C	0.377	0.391	0.404	0.419	0.433


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CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset XXV

(Rs. In lakhs)

132 KV Nagarjunasagar - RCPH						
COB:	28.02.1983	1983				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	0					
Transmission Line length in ckt km	7.70					
No. of bays	1					
Multiplication Factor	0.31					
Life in years	25					
Voltage kv	132					
Particulars		2019-20	2020-21	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 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
Depreciation						
Rate 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 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 loan						
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		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
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						
Maintenance Spares	15% of O&M	2.70	2.80	2.90	3.00	3.10
O&M Expenses		1.50	1.55	1.61	1.66	1.72
Revolavbles		2.33	2.41	2.50	2.58	2.68
Total		6.54	6.76	7.00	7.25	7.50
Interest on Working Capital	13.50%	0.88	0.91	0.95	0.98	1.01
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		0.88	0.91	0.95	0.98	1.01
O&M Expenses		18.02	18.64	19.31	19.98	20.69
Total		18.90	19.55	20.26	20.96	21.70
Norms for O&M per bay	132KV	16.08	16.64	17.23	17.83	18.46
Norms for O&M per km	9/C	0.252	0.260	0.270	0.279	0.289


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CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XXVI :

(Rs. in lakhs)

132 KV Chilikatti - Kusumanchi						
COD:	24.12.1983	1986				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	0					
Transmission Line length in ckt km	47.08					
No. of bays	1					
Multiplication Factor	0.43					
Life in years	25					
Voltage kv	132					
Particulars		2019-20	2020-21	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 (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
Depreciation						
Rate 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 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 loan						
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		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
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						
Maintenance Schemes	15% of O&M	5.07	5.23	5.43	5.63	5.82
O&M Expenses		2.82	2.92	3.02	3.13	3.23
Receivables		4.37	4.53	4.69	4.85	5.02
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						
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		1.65	1.71	1.77	1.84	1.90
O&M Expenses		33.80	35.02	36.22	37.52	38.81
Total		35.45	36.73	37.99	39.36	40.71
Norms for O&M per bay	132KV	16.08	16.64	17.23	17.83	18.46
Norms for O&M per km	D/C	0.377	0.391	0.404	0.419	0.433


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CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset XXVII & XXVIII

(Rs. in lakhs)

132 KV Chilikallu - Bonakallu - I & II						
CCID:	20.01.1987	1987				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	0					
Transmission Line length in ckt km	2.80					
No. of bays	3					
Multiplication Factor	0.43					
Life in years	25					
Voltage kv	132					
Particulars		2019-20	2020-21	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 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
Depreciation						
Rate 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 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 loan						
Gross Notional 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
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						
Maintenance Spares	15% of O&M	4.98	5.16	5.34	5.52	5.72
O&M Expenses		2.77	2.86	2.97	3.07	3.18
Receivables		4.50	4.45	4.60	4.76	4.93
Total		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
O&M Expenses		33.22	34.37	35.59	36.83	38.13
Total		34.84	36.06	37.33	38.64	40.00
Norms for O&M per bay	132KV	16.68	16.64	17.23	17.83	18.46
Norms for O&M per km	D/C	0.372	0.391	0.404	0.419	0.433


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 TSTRANSCO, Vidya Soudha,
 Hyderabad - 500 082


 Chief Engineer/Comptroller & RAC
 TSTRANSCO, Vidya Soudha,
 Hyderabad - 500 082.

CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XXIX(A) :

(Rs. In lakhs)

132 KV A.P.C. Carbidex - Alampur - II (Original Line)						
COD:	20.01.1987	1987				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	0					
Transmission Line length in ckt km	4.66					
No. of bays	1					
Multiplication Factor	0.31					
Life in years	28					
Voltage kv	132					
Particulars		2019-20	2020-21	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 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
Depreciation						
Rate 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 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 loan						
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		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 Nominal 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						
Maintenance Spares	15% of O&M	2.59	2.68	2.77	2.87	2.97
O&M Expenses		1.44	1.49	1.54	1.59	1.65
Receivables		2.23	2.31	2.39	2.47	2.55
Total		6.26	6.47	6.71	6.94	7.18
Interest on Working Capital	13.50%	0.84	0.87	0.91	0.94	0.97
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		0.84	0.87	0.91	0.94	0.97
O&M Expenses		17.25	17.85	18.49	19.13	19.81
Total		18.10	18.73	19.39	20.07	20.78
Norms for O&M per bay	132KV	18.08	18.64	19.23	19.83	20.46
Norms for O&M per km	9/C	0.952	0.260	0.270	0.279	0.289

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


[Signature]
 Chief Engineer/Comptroller & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XXIX(B) :

(Rs. In lakhs)

132 KV A.P.C. Carbidon - Alampur - H.H.O.)						
COD:	17.05.2004	2005				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	27.2					
Transmission Line length in ckt km	1.20					
No. of bays	1					
Multiplication factor	0.31					
Life in years	25					
Voltage kv	132					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		10.12	10.12	10.12	10.12	10.12
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		-	-	-	-	-
Gross Block Total		10.12	10.12	10.12	10.12	10.12
Average Gross Block		10.12	10.12	10.12	10.12	10.12
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	9.11
Elapsed life as on 31.03.2019		14.08	15.00	16.00	17.00	18.00
Balance useful life of the asset		11.00	10.00	9.00	8.00	7.00
Remaining depreciable value		2.07	1.87	1.66	1.45	1.24
Cumulative Depreciation		7.03	7.24	7.45	7.66	7.86
Depreciation		0.21	0.21	0.21	0.21	0.21
Interest on loan						
Gross Notional Loan		7.08	7.08	7.08	7.08	7.08
Cumulative repayment upto previous year		6.83	7.03	7.08	7.08	7.08
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	0.05	0.00	0.00	0.00
Net loan - closing		0.05	0.00	0.00	0.00	0.00
Average Loan		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	3.04	3.04	3.04	3.04
Opening Equity		3.04	3.04	3.04	3.04	3.04
Average Equity		3.04	3.04	3.04	3.04	3.04
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		0.72	0.72	0.72	0.72	0.72
Interest on Working Capital						
Maintenance Spares	15% of O&M	2.46	2.54	2.63	2.72	2.82
O&M Expenses		1.57	1.41	1.46	1.51	1.57
Receivables		2.24	2.31	2.39	2.47	2.55
Total		6.06	6.27	6.48	6.70	6.94
Interest on Working Capital	13.50%	0.82	0.85	0.88	0.91	0.94
Annual Transmission Charges						
Depreciation		0.21	0.21	0.21	0.21	0.21
Interest on Loan		0.02	0.00	0.00	0.00	0.00
Return on Equity		0.72	0.72	0.72	0.72	0.72
Interest on Working Capital		0.82	0.85	0.88	0.91	0.94
O&M Expenses		16.38	16.95	17.53	18.16	18.81
Total		18.13	18.73	19.36	20.00	20.67
Norms for O&M per bay	135KV	16.08	16.64	17.23	17.83	18.46
Norms for O&M per km	S/C	0.252	0.260	0.270	0.279	0.289


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 Hyderabad - 500 082.



 Chief Engineer/Comm & P.W.C.
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XXX:

(Rs. in lakhs)

132 KV Chilikallu - Madhira						
(C/D):	27.10.2001	2002				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	44.28					
Transmission Line length in ckt km	7.80					
No. of bays	1					
Multiplication Factor	0.31					
Life in years	25					
Voltage kv	132					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		96.09	96.09	96.09	96.09	96.09
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		-	-	-	-	-
Gross Block Total		96.09	96.09	96.09	96.09	96.09
Average Gross Block		96.09	96.09	96.09	96.09	96.09
Depreciation						
Rate of depreciation		2.05%	2.05%	2.05%	2.05%	2.05%
Depreciable value	90%	86.48	86.48	86.48	86.48	86.48
Elapsed life as on 31.03.2019		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		13.78	11.81	9.84	7.87	5.90
Cumulative Depreciation		72.70	74.67	76.64	78.61	80.58
Depreciation		1.97	1.97	1.97	1.97	1.97
Interest on loan						
Gross Notional Loan		67.26	67.26	67.26	67.26	67.26
Cumulative repayment upto previous year		67.26	67.26	67.26	67.26	67.26
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		28.83	28.83	28.83	28.83	28.83
Opening Equity		28.83	28.83	28.83	28.83	28.83
Average Equity		28.83	28.83	28.83	28.83	28.83
Rate of Return on Equity		21.81%	21.81%	21.81%	21.81%	21.81%
Return on Equity		6.87	6.87	6.87	6.87	6.87
Interest on Working Capital						
Maintenance Spares	15% of O&M	2.68	2.77	2.87	2.97	3.07
O&M Expenses		1.49	1.54	1.59	1.65	1.71
Receivables		3.42	3.50	3.58	3.67	3.76
Total		7.58	7.80	8.04	8.28	8.54
Interest on Working Capital	13.90%	1.05	1.05	1.09	1.12	1.15
Annual Transmission Charges						
Depreciation		1.97	1.97	1.97	1.97	1.97
Interest on Loan		0.00	0.00	0.00	0.00	0.00
Return on Equity		6.87	6.87	6.87	6.87	6.87
Interest on Working Capital		1.05	1.05	1.09	1.12	1.15
O&M Expenses		17.84	18.46	19.15	19.78	20.48
Total		27.71	28.35	29.04	29.74	30.47
Norms for O&M per bay	132KV	16.08	16.64	17.23	17.83	18.46
Norms for O&M per km	8/C	0.252	0.260	0.270	0.279	0.289


 Financial Adviser and Chief
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 Chief Financial Officer
 TSTRANSCO, Vidyut Bhudha,
 Hyderabad - 500 063


 Chief Engineer/Deputy & SAC
 TSTRANSCO, Vidyut Bhudha,
 Hyderabad - 500 062

CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XXXI :

(Rs. In lakhs)

132 KV Chilikallu - Khammam						
COB	02.12.2001	2002				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	44.28					
Transmission Line length in ckt km	35.00					
No. of bays	1					
Multiplication Factor	0.43					
Life in years	25					
Voltage kv	132					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		666.41	666.41	666.41	666.41	666.41
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		-	-	-	-	-
Gross Block Total		666.41	666.41	666.41	666.41	666.41
Average Gross Block		666.41	666.41	666.41	666.41	666.41
Depreciation						
Rate of depreciation		2.05%	2.05%	2.05%	2.05%	2.05%
Depreciable value	90%	599.77	599.77	599.77	599.77	599.77
Elapsed life as on 31.03.2019		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		95.56	81.90	68.24	54.58	40.92
Cumulative Depreciation		501.21	517.87	531.53	545.19	558.85
Depreciation		13.66	13.66	13.66	13.66	13.66
Interest on loan						
Gross Normative Loan		466.49	466.49	466.49	466.49	466.49
Cumulative repayment upto previous year		466.49	466.49	466.49	466.49	466.49
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		199.92	199.92	199.92	199.92	199.92
Opening Equity		199.92	199.92	199.92	199.92	199.92
Average Equity		199.92	199.92	199.92	199.92	199.92
Rate 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						
Maintenance Spares	1% of O&M	4.39	4.55	4.71	4.87	5.04
O&M Expenses		2.44	2.53	2.61	2.71	2.80
Receivables		11.47	11.61	11.74	11.89	12.04
Total		18.30	18.69	19.06	19.47	19.88
Interest on Working Capital	13.50%	2.47	2.52	2.57	2.63	2.68
Annual Transmission Charges						
Depreciation		13.66	13.66	13.66	13.66	13.66
Interest on Loan		0.00	0.00	0.00	0.00	0.00
Return 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
O&M Expenses		29.28	30.33	31.37	32.50	33.62
Total		93.04	94.14	95.24	96.42	97.59
Norms for O&M per bay	132KV	16.08	16.64	17.23	17.83	18.46
Norms for O&M per km	D/C	0.377	0.391	0.404	0.419	0.433

[Signature]
 Financial Adviser and Chief
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 Hyderabad - 500 082.


[Signature]
 Chief Engineer/Comm & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.


CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XXXII

(Rs. in lakhs)

132 KV Chilikallu - Sitapuram						
COLD:	06.04.2004	2005				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	27.2					
Transmission Line length in ckt km	2.50					
No. of bays	1					
Multiplication Factor	0.43					
Life in years	25					
Voltage kv	132					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		29.24	29.24	29.24	29.24	29.24
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		-	-	-	-	-
Gross Block Total		29.24	29.24	29.24	29.24	29.24
Average Gross Block		29.24	29.24	29.24	29.24	29.24
Depreciation						
Rate of depreciation		2.05%	2.05%	2.05%	2.05%	2.05%
Depreciable value	90%	26.32	26.32	26.32	26.32	26.32
Elapsed life as on 31.03.2019		14.00	15.00	16.00	17.00	18.00
Balance useful life of the asset		11.00	10.00	9.00	8.00	7.00
Remaining depreciable value		5.99	5.39	4.79	4.19	3.59
Cumulative Depreciation		20.12	20.92	21.52	22.12	22.72
Depreciation		0.60	0.60	0.60	0.60	0.60
Interest on loan						
Gross Nominal Loan		20.47	20.47	20.47	20.47	20.47
Cumulative repayment upto previous year		19.73	20.32	20.47	20.47	20.47
Net loan - 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 - closing		0.14	0.00	0.00	0.00	0.00
Average Loan		0.44	0.07	0.00	0.00	0.00
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	11.00%	11.00%
Interest		0.05	0.01	0.00	0.00	0.00
Return on Equity						
Gross Notional Equity		8.77	8.77	8.77	8.77	8.77
Opening Equity		8.77	8.77	8.77	8.77	8.77
Average Equity		8.77	8.77	8.77	8.77	8.77
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		2.09	2.09	2.09	2.09	2.09
Interest on Working Capital						
Maintenance Spares	15% of					
O&M Expenses	O&M	2.55	2.64	2.74	2.83	2.93
Receivables		1.42	1.47	1.52	1.57	1.63
Total		2.55	2.62	2.70	2.78	2.87
Interest on Working Capital	13.50%	0.88	0.91	0.94	0.97	1.00
Annual Transmission Charges						
Depreciation		0.60	0.60	0.60	0.60	0.60
Interest on loan		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	0.97	1.00
O&M Expenses		17.02	17.62	18.24	18.88	19.54
Total		20.64	21.22	21.87	22.54	23.23
Norms for O&M per bay	132KV	16.08	16.64	17.23	17.83	18.46
Norms for O&M per km	O/C	0.327	0.391	0.404	0.419	0.433


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 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

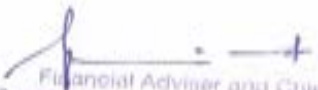

 Chief Engineer (Design & RAC)
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XXXIII:

(Rs. In lakhs)

132 KV Chitlakattu - Kodada						
COB:	10.06.2004	2005				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	27.2					
Transmission Line length in ckt km	9.84					
No. of bays	1					
Multiplication Factor	0.31					
Life in years	25					
Voltage kv	132					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		82.97	82.97	82.97	82.97	82.97
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		-	-	-	-	-
Gross Block Total		82.97	82.97	82.97	82.97	82.97
Average Gross 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
Elapsed life as on 31.03.2019		14.00	15.00	16.00	17.00	18.00
Balance useful life of the asset		11.00	10.00	9.00	8.00	7.00
Remaining depreciable value		17.00	15.50	13.60	11.50	10.20
Cumulative Depreciation		57.67	59.37	61.07	62.78	64.48
Depreciation		1.70	1.70	1.70	1.70	1.70
Interest on loan						
Gross Notional Loan		58.08	58.08	58.08	58.08	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
Net loan - 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						
Gross Notional Equity		24.89	24.89	24.89	24.89	24.89
Opening Equity		24.89	24.89	24.89	24.89	24.89
Average Equity		24.89	24.89	24.89	24.89	24.89
Rate of Return on Equity		75.83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		5.93	5.93	5.93	5.93	5.93
Interest on Working Capital						
Maintenance Spares	15% of O&M	2.78	2.88	2.98	3.09	3.20
O&M Expenses		1.55	1.60	1.66	1.71	1.78
Receivables		3.38	3.44	3.53	3.62	3.71
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		1.70	1.70	1.70	1.70	1.70
Interest on Loan		0.14	0.02	0.00	0.00	0.00
Return on Equity		5.93	5.93	5.93	5.93	5.93
Interest on Working Capital		1.01	1.07	1.10	1.14	1.17
O&M Expenses		18.56	19.20	19.89	20.58	21.30
Total		27.37	27.92	28.62	29.34	30.11
Norms for O&M per bay	132KV	16.08	16.64	17.23	17.83	18.46
Norms for O&M per km	S/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,
 78 Hyderabad - 500 082.

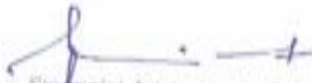

 Chief Engineer/Comm & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XXXIV :

(Rs. in lakhs)

132 KV Sitapuram - RCP						
COD:	10.05.2010	2011				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	52.26					
Transmission Line length in ckt km	0.37					
No. of bays	1					
Multiplication Factor	0.31					
Life in years	25					
Voltage kv	132					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		5.99	5.99	5.99	5.99	5.99
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		-	-	-	-	-
Gross Block Total		5.99	5.99	5.99	5.99	5.99
Average Gross Block		5.99	5.99	5.99	5.99	5.99
Depreciation						
Rate of depreciation		5.28%	5.28%	5.28%	5.28%	2.05%
Depreciable value	90%	5.39	5.39	5.39	5.39	5.39
Elapsed life as on 31.03.2019		8.00	9.00	10.00	11.00	12.00
Balance useful life of the asset		17.00	16.00	15.00	14.00	13.00
Remaining depreciable value		2.35	2.25	1.91	1.60	1.47
Cumulative Depreciation		2.80	3.16	3.48	3.80	3.92
Depreciation		0.32	0.32	0.32	0.32	0.12
Interest on loan						
Gross Normative Loan		4.20	4.20	4.20	4.20	4.20
Cumulative repayment upto previous year		2.55	2.85	3.16	3.48	3.80
Net loan - opening		1.66	1.35	1.03	0.71	0.40
Addition due to additional capitalisation		0.00	0.00	0.00	0.00	0.00
Repayment during the year		0.32	0.32	0.32	0.32	0.12
Net loan - closing		1.35	1.03	0.71	0.40	0.28
Average Loan		1.51	1.19	0.87	0.56	0.34
Weighted average rate of interest on loan (%)		11.00%	11.00%	11.00%	11.00%	11.00%
Interest		0.17	0.13	0.10	0.06	0.04
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	1.80
Average Equity		1.80	1.80	1.80	1.80	1.80
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		0.43	0.43	0.43	0.43	0.43
Interest on Working Capital						
Maintenance Expenses	18% of O&M	2.43	2.51	2.60	2.69	2.79
O&M Expenses		1.35	1.59	1.44	1.49	1.55
Receivables		2.21	2.27	2.38	2.43	2.48
Total		5.99	6.38	6.39	6.61	6.81
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		0.17	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
O&M Expenses		16.17	16.74	17.33	17.93	18.57
Total		17.89	18.48	19.03	19.63	20.07
Norms for O&M per bay	132KV	16.08	16.64	17.23	17.83	18.46
Norms for O&M per km	5/C	0.252	0.260	0.270	0.279	0.289


 Financial Adviser and Chief
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 Chief Financial Officer
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082



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

CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XXXV :

(Rs. in lakhs)

132 KV Tangeda - Wadapalli						
COD:	26.08.2010	2011				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	52.26					
Transmission Line length in ckt km	2.36					
No. of bays	1					
Multiplication Factor	0.31					
Life in years	25					
Voltage kv	132					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		38.23	38.23	38.23	38.23	38.23
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		-	-	-	-	-
Gross Block - Total		38.23	38.23	38.23	38.23	38.23
Average Gross Block		38.23	38.23	38.23	38.23	38.23
Depreciation						
Rate of depreciation		5.28%	5.28%	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		8.00	9.00	10.00	11.00	12.00
Balance useful life of the asset		17.00	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	20.19	22.21	24.22	25.01
Depreciation		2.02	2.02	2.02	2.02	0.78
Interest on loan						
Gross Normative Loan		26.76	26.76	26.76	26.76	26.76
Cumulative repayment upto previous year		16.15	18.17	20.19	22.21	24.22
Net loan - opening		10.61	8.59	6.58	4.56	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
Net loan - closing		8.59	6.58	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	11.47	11.47	11.47
Opening Equity		11.47	11.47	11.47	11.47	11.47
Average Equity		11.47	11.47	11.47	11.47	11.47
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		2.73	2.73	2.73	2.73	2.73
Interest on Working Capital						
Maintenance Spares	15% of 136M	2.50	2.39	2.68	2.77	2.87
O&M Expenses		1.49	1.44	1.49	1.54	1.60
Recoverables		2.89	2.93	2.98	3.04	2.95
Total		6.78	6.96	7.15	7.35	7.41
Interest on Working Capital	13.50%	0.91	0.94	0.97	0.99	1.00
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		2.73	2.73	2.73	2.73	2.73
Interest on Working Capital		0.91	0.94	0.97	0.99	1.00
O&M Expenses		16.67	17.25	17.67	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 O&M per km	5/c	0.252	0.260	0.270	0.279	0.289


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 Hyderabad - 500 082.



 Chief Engineer/Comptroller & TAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XXXVI :

(Rs. in lakhs)

132 KV Piduguralla - Wadapalli						
(C/D)	22.02.2014	2014				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	94.67					
Transmission Line length in ckt km	2.56					
No. of days	1					
Multiplication Factor	0.31					
Life in years	25					
Voltage kv	132					
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Gross Block		69.26	69.26	69.26	69.26	69.26
Addition during FY 2019-20 to FY 2023-24 due projected additional capitalisation		-	-	-	-	-
Gross Block Total		69.26	69.26	69.26	69.26	69.26
Average Gross Block		69.26	69.26	69.26	69.26	69.26
Depreciation						
Rate of depreciation		5.28%	5.28%	5.28%	5.28%	5.28%
Depreciable value	90%	62.33	62.33	62.33	62.33	62.33
Elapsed life as on 31.03.2019		5.00	6.00	7.00	8.00	9.00
Balance useful life of the asset		20.00	19.00	18.00	17.00	16.00
Remaining depreciable value		40.39	36.74	33.08	29.42	25.76
Cumulative Depreciation		21.94	25.60	29.26	32.91	36.57
Depreciation		3.66	3.66	3.66	3.66	3.66
Interest on loan						
Gross Normative Loan		48.48	48.48	48.48	48.48	48.48
Cumulative repayment upto previous year		18.28	21.94	25.60	29.26	32.91
Net loan - opening		30.20	26.54	22.88	19.22	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
Net loan - closing		26.54	22.88	19.22	15.57	11.91
Average Loan		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	20.78
Opening Equity		20.78	20.78	20.78	20.78	20.78
Average Equity		20.78	20.78	20.78	20.78	20.78
Rate of Return on Equity		23.83%	23.83%	23.83%	23.83%	23.83%
Return on Equity		4.95	4.95	4.95	4.95	4.95
Interest on Working Capital						
Maintenance Spares	15% of O&M	2.50	2.59	2.68	2.77	2.87
O&M Expenses		1.39	1.44	1.49	1.54	1.60
Recreation		3.63	3.65	3.68	3.71	3.75
Total		7.52	7.68	7.85	8.03	8.21
Interest on Working Capital	13.50%	1.02	1.04	1.06	1.08	1.11
Annual Transmission Charges						
Depreciation		3.66	3.66	3.66	3.66	3.66
Interest on Loan		3.12	2.72	2.32	1.91	1.51
Return on Equity		4.95	4.95	4.95	4.95	4.95
Interest on Working Capital		1.02	1.04	1.06	1.08	1.11
O&M Expenses		16.67	17.25	17.82	18.49	19.14
Total		29.42	29.62	29.84	30.09	30.37
Norms for O&M per bay	1.0/KV	16.08	16.64	17.23	17.83	18.46
Norms for O&M per km	5/C	0.252	0.260	0.270	0.279	0.289


 Financial Adviser and Chief
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 Chief Financial Officer
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

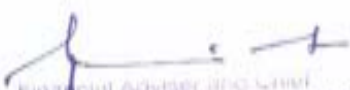

 Chief Engineer/Comptroller & RAO
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

CALCULATION OF ANNUAL TRANSMISSION CHARGES

Asset-XXXVII :

(Rs. in lakhs)

132 KV A.P.C Carbides - (Andwal) - (ALAMPUR-II)						
COID:	20.01.1987	1987				
Rationalised cost of 400kv line (Rs. lakh per ckt km)	0					
Transmission Line length in ckt km	4.66					
No. of bays	1					
Multiplication factor	0.31					
Life in years	25					
Voltage kv	132					
Particulars		2019-20	2020-21	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 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
Depreciation						
Rate of depreciation		2.05%	2.05%	2.05%	2.05%	2.05%
Depreciable value	98%	0.00	0.00	0.00	0.00	0.00
Planned life as on 31.03.2019		32.00	33.00	34.00	35.00	36.00
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		0.00	0.00	0.00	0.00	0.00
Depreciation		0.00	0.00	0.00	0.00	0.00
Interest on loan						
Gross Normative Loan		0.00	0.00	0.00	0.00	0.00
Cumulative repayment upto previous period / 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
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						
	15% of O&M					
Maintenance Spares		2.59	2.68	2.77	2.87	2.97
O&M Expenses		1.44	1.49	1.54	1.59	1.65
Receivables		2.23	2.31	2.39	2.47	2.56
Total		6.26	6.47	6.71	6.94	7.18
Interest on Working Capital	13.30%	0.84	0.87	0.91	0.94	0.97
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		0.84	0.87	0.91	0.94	0.97
O&M Expenses		17.25	17.85	18.49	19.13	19.81
Total		18.10	18.73	19.39	20.07	20.78
Norms for O&M per bay	132KV	16.08	16.64	17.23	17.83	18.46
Norms for O&M per km	R/C	0.262	0.260	0.270	0.279	0.289


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


 Chief Engineer/Chief & I&A
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

SATYANARAYANA AND ASSOCIATES
 CHARTERED ACCOUNTANTS


LILO OF ASSET-II - 400KV KALPAKA-ASUPAKA

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:

(Amount in Lakhs)								
S. No	Particulars	Freehold Land	Buildings and Civil Works	Tr. Lines	Sub-Station	PLCC-Communication System	IT Equipment including Software	Total
1	Expenditure from 01.04.2014 to 31.03.2015							
2	Expenditure from 01.04.2015 to 31.03.2016							
3	Expenditure from 01.04.2016 to 31.03.2017			3056.17				3056.17
4	Expenditure from 01.04.2017 to 31.03.2018			195.68				195.68
5	Expenditure from 01.04.2018 to 31.03.2019			10.59				10.59
	Total			3262.44				3262.44

We certify that we have verified expenditure upto 31.03.2019 as referred above on the basis of the information drawn from the audited statements 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. 20204487AAAA8Z1245



H. Shankar
Chartered Engineer, Civil & R&D
TSPANCOD, Vidyut Soudha,
Hyderabad - 500 082.

**PART-III
FORM-1**

Summary Sheet

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	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
	Total		676.02	658.49	641.02	623.60	606.25


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


 (Petitioner)
 Chief Engineer/Comm & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 062.


**PART-III
FORM-3**

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 Communication System: 400 KV Kalpaka - Asupaka

(Amount in Rs.Lakh)

Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
Base Rate of Return on Equity	%	15.500	15.500	15.500	15.500	15.500
Tax Rate	%	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	%	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	%	15.000	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%


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 Chief Financial Officer
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 Hyderabad - 500 082.


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


**PART-III
FORM-4**

**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: 400 KV Kalpaka - Asupaka

(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	
Building and Other Civil Works	
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 - 500 082.


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

**PART-III
FORM-4A**

Statement of Capital cost

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

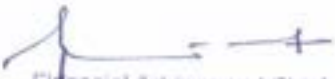
Name of the Project:

400 KV Kalpaka - Asupaka

Name of the Transmission Element or
Communication System

(Amount in Rs.Lakh)

S.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					
	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	-	-	-	-	-
B	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, FC, FERV & Hedging cost) included in B(a) above	-	-	-	-	-
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					
	c) Amount of IDC included in C(a) above	342.56	342.56	342.56	342.56	342.56
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	-	-	-	-	-


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

**PART-III
FORM-4B**

Statement of Capital Works in Progress

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

400 KV Kalpaka - Asupaka

Name of the Transmission Element or
Communication System

(Amount in Rs.Lakh)

S.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	-	-	-	-	-
B	a) Addition/ Adjustment in CWIP Amount during the period	-	-	-	-	-
	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	-	-	-	-	-
	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	-	-	-	-	-


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Hyderabad - 500 082


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Chief Engineer/Comm & RAC
TSTRANSCO, Vidyut Soudha,
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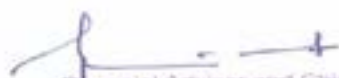
**PART-III
FORM-6**

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 Communication System: **400 KV Kalpaka - Asupaka**

(Amount in Rs.Lakh)

Particulars	Financial Package as Approved		Financial Package as on COD		As Admitted on COD	
	Currency and Amount		Currency and Amount		Currency and Amount	
1	2	3	4	5	6	7
Loan-I		2283.71		2283.71		2283.71
Loan-II						
Loan-III						
Total Loans		2283.71		2283.71		2283.71
Equity-		978.73		978.73		978.73
Foreign						
Domestic						
Total Equity		978.73		978.73		978.73
Debt : Equity Ratio		70 : 30				
Total Cost		3262.44		3262.44		3262.44
	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						
Add cap for year-2	Actual	Normative				
Debt						
Equity						
Total						
Total Capital Cost with add cap.						


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 (Petitioner)
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 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

PART-III
FORM-8Calculation of Return on Equity

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	5	6	7
1.1	Equity as on COD/ Admitted equity	978.73	978.73	978.73	978.73	978.73
1.2	Additional Capital made during the year.	0.00	0.00	0.00	0.00	0.00
1.3	Closing Equity	978.73	978.73	978.73	978.73	978.73
1.4	Average Equity	978.73	978.73	978.73	978.73	978.73
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*	233.19	233.19	233.19	233.19	233.19


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 Chief Financial Officer
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 (Petitioner)
 Chief Engineer/Commit & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 062.

PART-III
FORM-9C

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: 400KV Kalpaka-Asupaka

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Loan-I					
Gross loan - Opening	2,283.71	2,283.71	2,283.71	2,283.71	2,283.71
Cumulative repayments of Loans upto previous year	-	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
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(Petitioner)
Chief Engineer/Comm & RAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.

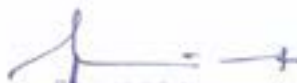
PART-III
FORM-9E

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 Communication System: 400 KV Kalpaka - Asupaka

(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 loan - 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 loan	210.71	191.76	172.81	153.86	134.92


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Chief Financial Officer
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Hyderabad - 500 082.


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

PART-III
FORM-10AStatement of Depreciation

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana


Name of the Project:

400 KV Kalpaka - Asupaka

Name of the Transmission Element or
Communication System:

(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	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	-	-	-	-	-
13	Net Cumulative depreciation at the end of the period	454.31	626.57	798.82	971.08	1143.34


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 Hyderabad - 500 082,


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


**PART-III
FORM-11**

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	5	6	7
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	11.79


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


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

SATYANARAYANA AND ASSOCIATES
CHARTERED ACCOUNTANTS


LILLO OF ASSETS - IV & V - 400 KV VTPS - SURYAPET - I & 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- I & II** is detailed as under:

(Amount in Lakhs)									
S. No	Particulars	Freehold Land	Buildings and Civil Works	Tr. Lines	Sub-Station	PLCC/Communication System	IT Equipment including Software	Total	DC Included in the Total
1	Expenditure from 01.04.2014 to 31.03.2015								
2	Expenditure from 01.04.2015 to 31.03.2016			625.20				625.20	65.65
3	Expenditure from 01.04.2016 to 31.03.2017								
4	Expenditure from 01.04.2017 to 31.03.2018								
5	Expenditure from 01.04.2018 to 31.03.2019								
	Total			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 Telangana 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

For M/s. Satyanarayana and Associates,
Chartered Accountants

(CA. V. Satyanarayana)
Partner,
M. NO. 204487
FRN: 007663S
UDI No. 20204487AAAACC5073



H. Vinay Kumar
Chief Engineer/Control & RAC
TGT/ANSCO, Vidyut Soudha,
Hyderabad - 500 082.


**PART-III
FORM-I**

Summary Sheet

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 VTPS- Suryapet-I&II**

(Amount in Rs.Lakh)

Sl. No.	Particulars	Form No.	2019-20	2020-21	2021-22	2022-23	2023-24
1	2		3	4	5	6	7
1.1	Depreciation	10A	33.01	33.01	33.01	33.01	33.01
1.2	Interest on Loan	9E	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


 Financial Advisor and Chief
 Controller of Accounts (Accounts) &
 Chief Financial Officer
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 Hyderabad - 500 062.


(Petitioner)
 Chief Engineer (Genral & RAC)
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 062.


PART-III
FORM-3

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 Communication System: 400KV VTPS- Suryapet-I&II

(Amount in Rs.Lakh)

Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
Base Rate of Return on Equity	%	15.500	15.500	15.500	15.500	15.500
Tax Rate	%	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	%	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	%	15.000	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%


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Hyderabad - 500 082.


(Petitioner)
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TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.


**PART-III
FORM-4**

**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: 400KV VTPS- Suryapet-I&II

(Amount in lakhs)

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	
Total:	625.20
Notional Loan	
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
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Chief Financial Officer
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Hyderabad - 500 062.


(Petitioner)
Chief Engineer/Comm & RAO
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 062.

**PART-III
FORM-4A**


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
400KV VTPS- Suryapet-I&II

(Amount in Rs.Lakh)

S.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	a) Opening Gross Block Amount as per books	625.20	625.20	625.20	625.20	625.20
	b) Amount of capital liabilities in A(a) above					
	c) Amount of IDC included in A(a) above	65.65	65.65	65.65	65.65	65.65
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	-	-	-	-	-
B	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	-	-	-	-	-
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	-	-	-	-	-
C	a) Closing Gross Block Amount as per books	625.20	625.20	625.20	625.20	625.20
	b) Amount of capital liabilities in C(a) above					
	c) Amount of IDC included in C(a) above	65.65	65.65	65.65	65.65	65.65
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	-	-	-	-	-


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

**PART-III
FORM-4B**

Statement of Capital Works in Progress

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana


Name of the Project:

400KV VTFS- Suryapet-I&II

Name of the Transmission Element or
Communication System

(Amount in Rs.Lakh)

S.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	-	-	-	-	-
B	a) Addition/ Adjustment in CWIP Amount during the period	-	-	-	-	-
	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	-	-	-	-	-
	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	-	-	-	-	-


Financial Adviser and Chief
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Chief Engineer/Control & RAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.

PART-III
FORM-6

Financial Package upto COD

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	Financial Package as Approved		Financial Package as on COD		As Admitted on COD	
	Currency and Amount		Currency and Amount		Currency and Amount	
1	2	3	4	5	6	7
Loan-I		437.64		437.64		437.64
Loan-II						
Loan-III						
Total Loans		437.64		437.64		437.64
Equity-		187.56		187.56		187.56
Foreign						
Domestic						
Total Equity		187.56		187.56		187.56
Debt : Equity Ratio		70 : 30				
Total Cost		625.20		625.20		625.20
	Debt	Equity	Total			
Add cap for 2013-14	-	-	-			
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.						


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


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

PART-III
FORM-8Calculation of Return on Equity

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)

Sl. 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	187.56	187.56	187.56	187.56	187.56
1.2	Additional Capital made during the year.	-	-	-	-	-
1.3	Closing 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


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


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

PART-III
FORM-9C

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-1&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					
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, Vidyut Soudha,
Hyderabad - 500 082.


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


PART-III
FORM-9E

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 Communication System: 400KV VTPS- Suryapet-I&II

(Amount in Rs.Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	5	4	5
Gross loan - 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	-	-	-	-	-
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


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


(Petitioner)
Chief Engineer/Chief & FAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 062.

**PART-III
FORM-10A**

Statement of Depreciation

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

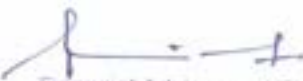
Name of the Project:

400KV VTPS- Suryapet-1&II

Name of the Transmission Element or
Communication System

(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	Opening Capital Cost	625.20	625.20	625.20	625.20	625.20
2	Closing Capital Cost	625.20	625.20	625.20	625.20	625.20
3	Average Capital Cost	625.20	625.20	625.20	625.20	625.20
4	Freehold land	-	-	-	-	-
5	Rate of depreciation	5.28%	5.28%	5.28%	5.28%	5.28%
6	Depreciable value	562.68	562.68	562.68	562.68	562.68
7	Balance useful life at the beginning of the period	21	20	19	18	17
8	Remaining depreciable value	430.46	397.45	364.44	331.43	298.41
9	Depreciation (for the period)	33.01	33.01	33.01	33.01	33.01
10	Depreciation (annualised)	33.01	33.01	33.01	33.01	33.01
11	Cumulative depreciation at the end of the period	132.22	165.23	198.24	231.25	264.27
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	-	-	-	-	-
13	Net Cumulative depreciation at the end of the period	132.22	165.23	198.24	231.25	264.27


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


(Petitioner)
Chief Engineer (Comm) & RAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.

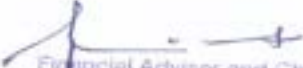
**PART-III
FORM-11**

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: **400KV VTPS- Suryapet-I&II**

(Amount in Rs.Lakh)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
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


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


 (Petitioner)
 Chief Engineer/Control & F&O
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

SATYANARAYANA AND ASSOCIATES
CHARTERED ACCOUNTANTS

LILLO OF ASSET--XI - 220KV SRISAILAM - DOMALAPENTA (DNDI)


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:

(Amount in Lakhs)

S. No.	Particulars	Free hold Land	Buildings and civil works	Tr. Lines	Sub-station	PLCC/ Communication system	IT 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

A. Vishwanath
Chief Engineer, TCE & R&D
TCE & R&D, TCE & R&D

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Head Office : G-1, B-Block, Matrasi Apartments, Hyderguda, Hyderabad - 500 029.
Mobile : 9391021127, 6302021939 Ph: 040 40128176, Fax : 23296543, Email : satyam_vinnakota@yahoo.com
B. Office : H.No: 20-145/6, 1st Floor, Dayanand Nagar, Malkajiri, Hyderabad 500047.

PART-III
FORM-1

Summary Sheet

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 Srisailem - Domalapenta line

(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	1.12	1.39	1.61	1.61	1.61
1.2	Interest on Loan	9E	1.58	1.83	1.98	1.80	1.62
1.3	Return on Equity	8	1.52	1.88	2.17	2.17	2.17
1.4	Interest on Working Capital	11	1.12	1.23	1.28	1.32	1.36
1.5	O & M Expenses		21.60	23.38	24.20	25.04	25.93
	Total		26.94	29.71	31.24	31.94	32.69

For M/s.Satyanarayana & Associates,
Chartered Accountants

V S Rao
 (CA.V.Satyanarayana)
 partner
 M.No.204487
 FRN.0076638
 UDIN: 21204487AAAAA8534



H. Vishwanath
 (Petitioner)
 Chief Engineer (Transmission) & PAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082

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

PART-III
FORM-3

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 Communication System: 220 KV Srisaifam - Domalapenta line

(Amount in Rs.Lakh)

Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
Base Rate of Return on Equity	%	15.500	15.500	15.500	15.500	15.500
Tax Rate	%	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	%	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 01.04.2019	%	11.00%	11.00%	11.00%	11.00%	11.00%

For M/s.Satyanarayana & Associates,
Chartered Accountants

V S M
(CA.V.Satyanarayana)

partner
M.No.204487
FRN:0076638
UDIN: 21204487AAAADA8534



H. V. S. S. S.
(Petitioner)
Chief Engineer/Control & RAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.

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

PART-III
FORM-4

**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 Srisaillam - Domalapenta line

(Amount in lakhs)

Date of Commencement	17-Apr-19
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)	30.41
Freehold Land	
Leasehold Land	
Building and Other Civil Works	
Transmission Line	30.41
Sub-Station Equipments	
PLCC	
Total:	30.41
Notional Loan	
Notional Equity	
Total :	
Debt Equity Ratio	70 : 30
Debt	21.29
Equity	9.12
Total :	30.41
Cumulative amount of depreciation	7.33
Cumulative repayment of loan	7.33
Initial Spares	

for M/s. Satyanarayana and Associates
Chartered Accountants

V S R
(CA.V.Satyanarayana)
Partner
M.No.204487
FRN-0076635
UDIN: 21204487AAAADA8534

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H. Vishwanath
(Petitioner)
Chief Engineer (Genl & RAC)
TSTRANSCO, Vayal Soudha,
Hyderabad - 500 082

[Signature]
Financial Adviser and Chief
Controller of Accounts (Accounts) &
Chief Financial Officer
TSTRANSCO, Vayal Soudha,
Hyderabad - 500 082

PART-III
FORM-4A

Statement of Capital cost

Name of the Petitioner:

Transmission Corporation of Telangana Limited
Telangana

Name of the Region:

Name of the Project:

Name of the Transmission Element or
Communication System

220 KV Srisaillam - Dumalapenta line

		(Amount in Rs.Lakhs)				
S.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	a) Opening Gross Block Amount as per books	0.00	22.27	30.41	30.41	30.41
	b) Amount of capital liabilities in A(a) above					
	c) Amount of IDC included in A(a) above	0.00	2.45	3.35	3.35	3.35
	d) Amount of IFDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	-	-	-	-	-
B	a) Addition in Gross Block Amount during the period	22.27	8.15	-	-	-
	b) Amount of capital liabilities in B(a) above					
	c) Amount of IDC included in B(a) above	2.45	0.90	-	-	-
	d) Amount of IFDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	-	-	-	-	-
C	a) Closing Gross Block Amount as per books	22.27	30.41	30.41	30.41	30.41
	b) Amount of capital liabilities in C(a) above					
	c) Amount of IDC included in C(a) above	2.45	3.35	3.35	3.35	3.35
	d) Amount of IFDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	-	-	-	-	-

For M/s. Satyanarayana and Associates
Chartered Accountants

(CA.V.Satyanarayana)

Partner

M.no.204487

FRN-0076639

UDIN: 21204487AAAADA8534



H. Vinod
Chief Engineer (Control & R&D)
(Petitioner)
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.

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

PART-III
FORM-4B

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

220 KV Srisailem - Domalapenta line

		(Amount in Rs.Lakh)					
S.No.	Particulars	2019-19	2019-20	2020-21	2021-22	2022-23	2023-24
A	a) Opening CWIP amount as per books	-	18.01	-	-	-	-
	b) Amount of capital liabilities in a above	-	-	-	-	-	-
	c) Amount of IDC included in (a) above	-	1.98	-	-	-	-
B	a) Addition/ Adjustment in CWIP Amount during the period	18.01	4.26	8.15	-	-	-
	b) Amount of capital liabilities in a above	-	-	-	-	-	-
	c) Amount of IDC included in (a) above	1.98	0.47	0.90	-	-	-
C	a) Capitalisation/ Transfer in Fixed Asset of CWIP	-	22.27	8.15	-	-	-
	b) Amount of capital liabilities in a above	-	-	-	-	-	-
	c) Amount of IDC included in (a) above	-	2.45	0.90	-	-	-
D	a) Closing CWIP Amount as per books	18.01	-	-	-	-	-
	b) Amount of capital liabilities in a above	-	-	-	-	-	-
	c) Amount of IDC included in (a) above	1.98	-	-	-	-	-

For M/s. Satyanarayana and Associates
Chartered Accountants

V S N
(CA.V.Satyanarayana)
Partner
M.No.204487
FRN:0076635
UDIN: 21204487AAAADAR554



H. Vishwanath
Chief Engineer/Control & RAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.

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

PART-III
FORM-6

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 Communication System: 220 KV Srisaillam - Domalapenta line

(Amount in Rs.Lakh)

Particulars	Financial Package as Approved		Financial Package as on COD		As Admitted on COD	
	Currency and Amount		Currency and Amount		Currency and Amount	
1	2	3	4	5	6	7
Loan-I		21.29		21.29		21.29
Loan-II						
Loan-III						
Total Loans		21.29		21.29		21.29
Equity-		9.12		9.12		9.12
Foreign						
Domestic						
Total Equity		9.12		9.12		9.12
Debt : Equity Ratio		70 : 30				
Total Cost		30.41		30.41		30.41
	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			
	21.29	9.12	30.41			
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						

For M/s. Satyanarayana and Associates
 Chartered Accountants

(CA.V.Satyanarayana)
 Partner
 M.no.204487
 FRN:007663S
 UDIN: 21204487AAAADA8534



H. Vinod Kumar
 (Petitioner)
 Chief Engineer (Transmission & T&A)
 TSTRANSCO, Vidyal Soudha,
 Hyderabad - 500 082.

[Signature]
 Financial Adviser and Chief
 Controller of Accounts (Accounts) &
 Chief Financial Officer
 TSTRANSCO, Vidyal Soudha,
 Hyderabad - 500 082.

PART-II
FORM-BCalculation of Return on Equity

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 Srisaillam - Domalapenta line

(Amount in Rs.Lakh)

Sl. 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	6.68	6.68	9.12	9.12	9.12
1.2	Additional Capital made during the year.	-	2.44	-	-	-
1.3	Closing Equity	6.68	9.12	9.12	9.12	9.12
1.4	Average Equity	6.68	7.90	9.12	9.12	9.12
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*	1.52	1.68	2.17	2.17	2.17

For M/s. Satyanarayana and Associates
 Chartered Accountants

(CA.V.Satyanarayana)
 Partner
 M.No.204487
 FRN:0076635
 UDIN: 21204487AAAADA8534



A. Vishwanath
 (Petitioner)
 Chief Engineer/Comm. & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

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

PART-III
FORM-9CCalculation 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: 220KV Srisaillam-Domalapenta

(Amount in Rs.Lakh)

Particulars	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Loan-I						
Gross loan - Opening	-	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	2.13
Net loan - 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%	11.00%
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 Accountants

(CA.V.Satyanarayana)

partner

M.No.204487

FRN:0076638

UDIN: 21204487AAAADA8534



Chief Engineer/Comm & RAC
 TSTI & TSC, Vidyut Soudha,
 (Petitioner)
 Hyderabad - 500 082.

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

PART-III
FORM-9ECalculation of Interest on Normative Loan

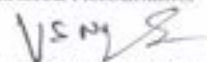
Name of the Petitioner: Transmission Corporation of Telangana Limited
 Name of the Region: Telangana
 Name of the Project:
 Name of the Transmission Element or Communication System: 220 KV Srisaifam - Domalapenta line

(Amount in Rs.Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	5	4	5
Gross loan - 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	-	-	-
Less: Repayment of Loans during the year	1.12	1.39	1.61	1.61	1.61
Net Normative loan - 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 loans	11.00%	11.00%	11.00%	11.00%	11.00%
Interest on Normative loan	1.55	1.83	1.98	1.80	1.62

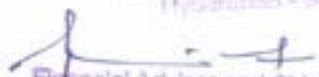
For M/s. Satyanarayana and Associates

Chartered Accountants


 (CA.V.Satyanarayana)
 Partner
 M.No.204487
 FRN:0076635
 UDIN: 21204487AAAADA8534




 Chief Engineer of Control & RAC
 (Petitioner)
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.


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

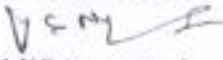
PART-III
FORM-10AStatement of Depreciation

Name of the Petitioner: Transmission Corporation of Telangana Limited
 Name of the Region: Telangana
 Name of the Project: 220 KV Srisaillam - Domalapenta line
 Name of the Transmission Element or Communication System:

(Amount in Rs.Lakh)


Sl.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	22.27	22.27	30.41	30.41	30.41
2	Closing Capital Cost	22.27	30.41	30.41	30.41	30.41
3	Average Capital Cost	22.27	26.34	30.41	30.41	30.41
4	Freehold land	-	-	-	-	-
5	Rate of depreciation	5.28%	5.28%	5.28%	5.28%	5.28%
6	Depreciable value	20.64	27.37	27.37	27.37	27.37
7	Balance useful life at the beginning of the period	25	24	23	22	21
8	Remaining depreciable value	18.91	24.85	23.25	21.64	20.04
9	Depreciation (for the period)	1.12	1.39	1.61	1.61	1.61
10	Depreciation (annualised)	1.18	1.39	1.61	1.61	1.61
11	Cumulative depreciation at the end of the period	1.12	2.51	4.12	5.73	7.33
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	-	-	-	-	-
13	Net Cumulative depreciation at the end of the period	1.12	2.51	4.12	5.73	7.33

For M/s. Satyanarayana and Associates
 Chartered Accountants


 (CA.V.Satyanarayana)
 Partner
 M.no.204487
 FRN:0076635
 UDIN: 21204487AAAADA8334




 Chief Engineer/Comml & RAO
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.


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

PART-III
FORM-11Calculation 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: 220 KV Srisaillam - Domalapenta line

(Amount in Rs.Lakh)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
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	4.07
4	Total Working Capital	8.67	9.12	9.50	9.78	10.08
5	Rate of Interest	13.50%	13.50%	13.50%	13.50%	13.50%
6	Interest on Working Capital	1.12	1.23	1.28	1.32	1.36

For M/s. Satyanarayana and Associates
 Chartered Accountants

VSN
 (CA.V.Satyanarayana)

Partner

M.no.204487

FRN:0076635

UDIN: 21204487AAAADA8534

H. Vishwanath
 (Petitioner)
 TSTRANSCO - 500 052.

[Signature]
 Financial Adviser and Chief
 Controller of Accounts (Accounts) &
 Chief Financial Officer
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 052.



SATYANARAYANA AND ASSOCIATES
CHARTERED ACCOUNTANTS
L10 OF ASSET-XX - 220KV CHILLAKALLU-MARKETALLY-I (SURYAPETA)

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 - Suryapeta** is detailed as under:

(Amount in Lakhs)

S. No	Particulars	Freehold Land	Buildings and Civil Works	Tr. Lines	Sub-Station	PLCC/Communication System	IT Equipment including Software	Total	IDC included in the Total
1	Expenditure from 01.04.2014 to 31.03.2015								
2	Expenditure from 01.04.2015 to 31.03.2016			388.09				388.09	40.75
3	Expenditure from 01.04.2016 to 31.03.2017			392.01				392.01	41.16
4	Expenditure from 01.04.2017 to 31.03.2018			53.37				53.37	5.60
5	Expenditure from 01.04.2018 to 31.03.2019								
	Total			833.47				833.47	87.51

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.2020487AAAACA3639



Chief Engineer/Crown & RAO
 TSTRANSOCO, Vidyut Soudha,
 Hyderabad - 500 082

PART-III
FORM-1Summary Sheet

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**

(Amount in Rs.Lakh)

Sl. No.	Particulars	Form No.	2019-20	2020-21	2021-22	2022-23	2023-24
1	2		3	4	5	6	7
1.1	Depreciation	10A	44.01	44.01	44.01	44.01	44.01
1.2	Interest on Loan	9E	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


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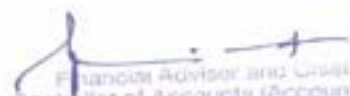

 (Petitioner)
 Chief Engineer/Comm & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 052.

PART-III
FORM-3**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 Communication System: **220 KV Chillakallu - Suryapeta**

(Amount in Rs.Lakh)

Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
Base Rate of Return on Equity	%	15.500	15.500	15.500	15.500	15.500
Tax Rate	%	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	%	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	%	11.00%	11.00%	11.00%	11.00%	11.00%


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 Hyderabad - 500 082.


 (Petitioner)
 Chief Engineer, Control & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.


**PART-III
FORM-4**

**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

(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	
Transmission Line	833.47
Sub-Station Equipments	
PLCC	
Total:	833.47
Notional Loan	
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	


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 Hyderabad - 500 082.


 (Petitioner)
 Chief Engineer, Control & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.


PART-III
FORM-4AStatement 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

(Amount in Rs.Lakh)

S.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	-	-	-	-	-
B	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	-	-	-	-	-
	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 C(a) above	-	-	-	-	-


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Chief Financial Officer
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(Petitioner)
Chief Engineer/Comm & RAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.

PART-III
FORM-4B

Statement of Capital Works in Progress

Name of the Petitioner:

Transmission Corporation of Telangana Limited
Telangana

Name of the Region:


Name of the Project:

Name of the Transmission Element or
Communication System

220 KV Chillakallu - Suryapeta

(Amount in Rs.Lakh)

S.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	-	-	-	-	-
B	a) Addition/ Adjustment in CWIP Amount during the period	-	-	-	-	-
	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	-	-	-	-	-
	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	-	-	-	-	-


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Hyderabad - 500 082.


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


PART-III
FORM-6

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 Communication System: 220 KV Chillakallu - Suryapeta

(Amount in Rs.Lakh)

Particulars	Financial Package as Approved		Financial Package as on COD		As Admitted on COD	
	Currency and Amount		Currency and Amount		Currency and Amount	
1	2	3	4	5	6	7
Loan-I		704.35		583.43		583.43
Loan-II						
Loan-III						
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				
Total Cost		1006.21		833.47		833.47
	Debt	Equity	Total			
Add cap for 2013-14	-	-	-			
Add cap for 2014-15	-	-	-			
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						
Total						
Add cap for year-2	Actual	Normative				
Debt						
Equity						
Total						
Total Capital Cost with add cap.						


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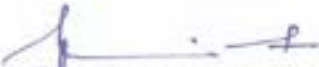

 (Petitioner)
 Chief Engineer/Comm & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

PART-III
FORM-8Calculation of Return on Equity

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)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	5	6
1.1	Equity as on COD/ Admitted equity	250.04	250.04	250.04	250.04	250.04
1.2	Additional Capital made during the year.	-	-	-	-	-
1.3	Closing Equity	250.04	250.04	250.04	250.04	250.04
1.4	Average Equity	250.04	250.04	250.04	250.04	250.04
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*	59.57	59.57	59.57	59.57	59.57


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 Chief Financial Officer
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 Hyderabad - 500 082.


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


**PART-III
FORM-9C**


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: 220KV Chillakallu-Suryapeta

(Amount in Rs.Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Loan-1					
Gross loan - 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 loan - 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 loan	34.97	27.84	20.11	12.69	5.26
Loan repayment effective from (date to be indicated)					


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 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.


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


**PART-III
FORM-9E**

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 Communication System: 220 KV Chillakallu - Suryapeta

(Amount in Rs.Lakh)

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 loan - Opening	485.43	441.42	397.41	353.40	309.40
Increase/Decrease due to ACE/de-capitalisation during the year	-	-	-	-	-
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 Chief
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 Chief Financial Officer
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.


 (Petitioner)
 Chief Engineer/Comm & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 062.

**PART-III
FORM-10A**

Statement of Depreciation

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

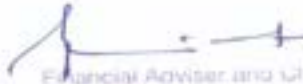
Name of the Project:

220 KV Chillakallu - Suryapeta

Name of the Transmission Element or
Communication System

(Amount in Rs.Lakh)

SLNo.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
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	833.47
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	44.01	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	-	-	-	-	-
13	Net Cumulative depreciation at the end of the period	142.01	186.02	230.02	274.03	318.04


Financial Adviser and Chief
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(Petitioner)
Chief Engineer (Cum) & RAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.

**PART-III
FORM-11**

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: 220 KV Chilikallu - Suryapeta

(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	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


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 (Petitioner)
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 Hyderabad - 500 082.

SATYANARAYANA AND ASSOCIATES
CHARTERED ACCOUNTANTS

LILO OF ASSET-XXI-220KV CHILLAKALLU-MARKETPALLY-II (PULICHINTALA)


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/ Communication 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

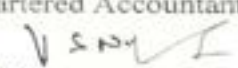
We certify that we have verified expenditure upto 31.03.2020 as referred above on the basis of the information drawn from the audited and provisional statement of accounts of Transmission Corporation of Telangana Limited.

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

 For M/s.Satyanarayana and Associates,
 Chartered Accountants


 Chief Engineer/Comm & RAO
 TSTRANSO, Vidyut Soudha,
 Hyderabad - 500 082.


 (CA.V.Satyanarayana)
 Partner.
 M.No.204487
 FRN: 007663S
 UDI No.21204487AAAADB6918

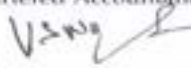
PART-III
FORM-1Summary Sheet

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 - Pulichintala

(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	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




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


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

PART-III
FORM-3Normative 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 Communication System: **220 KV Chillakallu - Pulichintala**

(Amount in Rs.Lakh)

Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
Base Rate of Return on Equity	%	15.500	15.500	15.500	15.500	15.500
Tax Rate	%	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	%	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	%	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: 21204487AAAAD86918



H. V. S. S. S.
(Petitioner)

For M/s.Satyanarayana & Associates
(Chartered Accountants)
Hyderabad - 500 029.

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

**PART-III
FORM-4**

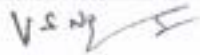
**ABSTRACT OF ADMITTED PARAMETERS FOR THE
EXISTING TRANSMISSION ASSETS**

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 - Pulichintala

(Amount in lakhs)


Date of Commencement	5-Dec-18
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)	4,244.35
Freehold Land	
Leasehold Land	
Building and Other Civil Works	
Transmission Line	4,080.52
Sub-Station Equipments	
PLCC	
Total:	4,080.52
Notional Loan	
Notional Equity	
Total :	
Debt Equity Ratio	70 : 30
Debt	2856.37
Equity	1224.16
Total :	4080.52
Cumulative amount of depreciation	1141.66
Cumulative repayment of loan	1141.66
Initial Spares	

for M/s. Satyanarayana and Associates
Chartered Accountants


(CA.V.Satyanarayana)
Partner
M.No.204487
FRN:0076635
UDIN: 21204487AAAA086918



(3)


(Petitioner)
Chief Engineer/Control & RAO
TSTRANSCO, Vidyut Seudha,
Hyderabad - 500 082.


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

**PART-III
FORM-4A**

Statement of Capital cost

Name of the Petitioner: Transmission Corporation of Telangana Limited
 Name of the Region: Telangana
 Name of the Project: 220 KV Chilikallu - Pulichintala
 Name of the Transmission Element or Communication System:

(Amount in Rs.Lakh)

S.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	a) Opening Gross Block Amount as per books	3,972.93	4,080.52	4,080.52	4,080.52	4,080.52
	b) Amount of capital liabilities in A(a) above					
	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(a) above	-	-	-	-	-
B	a) Addition in Gross Block Amount during the period	107.59	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	11.84	0.00	0.00	0.00	0.00
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	-	-	-	-	-
C	a) Closing Gross Block Amount as per books	4080.52	4080.52	4080.52	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	-	-	-	-	-

For M/s. Satyanarayana and Associates
 Chartered Accountants

(CA.V.Satyanarayana)
 Partner
 M.No.204487
 FRN:0076635
 UDIN: 21204487AAAADB6918



H. Lakshman
 (Petitioner)
 Chief Engineer/Control & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

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

**PART-III
FORM-4B**

Statement of Capital Works In Progress

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 Chiflakallu - Pulichintala

(Amount in Rs.Lakh)

S.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					
	c) Amount of IDC included in (a) above	0.00	0.00	0.00	0.00	0.00
B	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	11.84	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	11.84	0.00	0.00	0.00	0.00
D	a) Closing CWIP Amount as per books	-	-	-	-	-
	b) Amount of capital liabilities in a above					
	c) Amount of IDC included in (a) above	-	-	-	-	-

For M/s. Satyanarayana and Associates
 Chartered Accountants

(CA.V.Satyanarayana)
 Partner
 M.No.204487
 FRN-0076635
 UDIN: 21204487AAAAD86918



H. Vishwanath
 (Petitioner)

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

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

PART-III
FORM-6

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 Communication System: 220 KV Chhillakallu - Pulichintala

(Amount in Rs.Lakh)

Particulars	Financial Package as Approved		Financial Package as on COD		As Admitted on COD	
	Currency and Amount		Currency and Amount		Currency and Amount	
1	2	3	4	5	6	7
Loan-I		2971.04		2856.37		2856.37
Loan-II						
Loan-III						
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				
Total Cost		4244.35		4080.52		4080.52
	Debt	Equity	Total			
Add cap for 2013-14	-	-	-			
Add cap for 2014-15	-	-	-			
Add cap for 2015-16	-	-	-			
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.						

For M/s. Satyanarayana and Associates
 Chartered Accountants

(CA.V.Satyanarayana)
 Partner
 M.no.204487
 FRN:0076635
 UDIN: 21204487AAAADB6918



H. Vishwanath
 (Petitioner)

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

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

PART-III
FORM-8Calculation of Return on Equity

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 - Pulichintala**

(Amount in Rs.Lakh)

Sl. 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	1191.88	1224.16	1224.16	1224.16	1224.16
1.2	Additional Capital made during the year.	32.28	-	-	-	-
1.3	Closing Equity	1224.16	1224.16	1224.16	1224.16	1224.16
1.4	Average Equity	1208.02	1224.16	1224.16	1224.16	1224.16
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	23.826	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

(CA.V.Satyanarayana)
 Partner
 M.no.204487
 FRN-0076638
 UDIN: 21204487AAAAD86918



[Signature]
 (Petitioner)

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

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

**PART-III
FORM-9C**

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: 220KV Chillakallu-Pulichintala

(Amount in Rs.Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Loan-1					
Gross loan - 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 loan - 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 loan - 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 loan	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

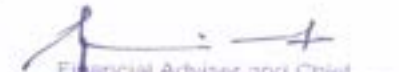


(CA.V.Satyanarayana)
partner
M.No.204487
FRN.0076638
UDIN: 21204487AAAADB6918




(Petitioner)

Chief Engineer/Comm & RAO
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.


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

PART-III
FORM-9ECalculation 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 Communication System: 220 KV Chillakallu - Pulichintala

(Amount in Rs.Lakh)

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	490.30	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 loan	290.97	271.57	247.87	224.17	200.47

For M/s. Satyanarayana and Associates

Chartered Accountants

V S N

(CA.V.Satyanarayana)

Partner

M.No.204487

PRN:0076635

UDIN: 21204487AAAADB6918



H. V. S. RAO

Chief Engineer/Current & RAO
TSTRANSO (Petitioner) Soudha,
Hyderabad - 500 082.

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

**PART-III
FORM-10A**

Statement of Depreciation

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

220 KV Chillakallu - Pulichintala

Name of the Transmission Element or
Communication System

(Amount in Rs.Lakh)

Sl.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	3672.93	4080.52	4080.52	4080.52	4080.52
2	Closing Capital Cost	4080.52	4080.52	4080.52	4080.52	4080.52
3	Average Capital Cost	4026.73	4080.52	4080.52	4080.52	4080.52
4	Freehold land	-	-	-	-	-
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
7	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	1141.66

For M/s. Satyanarayana and Associates
Chartered Accountants

(CA.V.Satyanarayana)

Partner

M.no.204487

FRN.007663S

UDIN: 21204487AAAADIB6W18



H. Vishwanath
(Petitioner)
Chief Engineer (Electrical) & PAC
TSPTRANSOCO, Vidyut Soudha,
Hyderabad - 500 082.

[Signature]
Financial Adviser and Chief
Controller of Accounts (Accounts) &
Chief Financial Officer
TSPTRANSOCO, Vidyut Soudha,
Hyderabad - 500 082.

**PART-III
FORM-11**

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: **220 KV Chillakallu - Pulichintala**

(Amount in Rs.Lakh)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
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	112.98	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

V S + V S
 (CA.V.Satyanarayana)
 Partner
 M.no.204487
 FRN:0076635
 UDIN: 21204487AAAAD86918



K. V. Soudha
 (Petitioner)
 Chief Engineer/Cumint & RAO
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

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

SATYANARAYANA AND ASSOCIATES
CHARTERED ACCOUNTANTS


LIL0 OF ASSET-XXXVII- 132KV APCARIDES- ALAMPUR-II (SADANA)

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:

(Amount in Lakhs)									
S. No	Particulars	Freehold Land	Buildings and Civil Works	Tr. Lines	Sub-Station	PLCC/Communication System	IT Equipment including Software	Total	IOC Included in the Total
1	Expenditure from 01.04.2013 to 31.03.2014			121.57				121.57	12.76
2	Expenditure from 01.04.2014 to 31.03.2015			56.66				56.66	5.15
3	Expenditure from 01.04.2015 to 31.03.2016			2.12				2.12	0.22
4	Expenditure from 01.04.2016 to 31.03.2017								
5	Expenditure from 01.04.2017 to 31.03.2018								
6	Expenditure from 01.04.2018 to 31.03.2019								
	Total			180.35				180.35	18.14

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 IOC 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

A. V. Satyanarayana
Chief Engineer/Comm & RAC
TSTRANSOCO, Vidyut Soudha,
Hyderabad - 500 082.



V. S. No. 12
(CA. V. Satyanarayana)
Partner,
M. NO. 204487
FRN: 007663S
UDI No. 20204487AAAACD2708


**PART-III
FORM-1**

Summary Sheet

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: **132 KV A.P.Carbides - Alampur - II**

(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	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		16.38	16.95	17.55	18.16	18.81
	Total		48.71	48.25	47.81	47.39	47.00


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

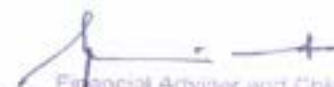

 (Petitioner)
 Chief Engineer/Control & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 052.

PART-III
FORM-3Normative 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 Communication System: 132 KV A.P.Carbides - Alampur - II

(Amount in Rs.Lakh)

Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
Base Rate of Return on Equity	%	15.500	15.500	15.500	15.500	15.500
Tax Rate	%	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	%	98.000	98.000	98.000	98.000	98.000
Normative O&M per km	Rs. Lakhs	0.252	0.260	0.270	0.279	0.289
Normative O&M per bay	Rs. Lakhs	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	%	11.00%	11.00%	11.00%	11.00%	11.00%


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


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


PART-III
FORM-4

**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: 132 KV A.P.Carbides - Alampur - II

(Amount in lakhs)

Date of Commencement	6-Sep-14
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)	160.67
Freehold Land	
Leasehold Land	
Building and Other Civil Works	
Transmission Line	180.35
Sub-Station Equipments	
PLCC	
Total:	180.35
Notional Loan	
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	


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


(Petitioner)
Chief Engineer/Comm & RAG
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 062.

PART-III
FORM-4A

Statement of Capital cost

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

(Amount in Rs.Lakh)

S.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	180.35
	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	-	-	-	-	-
B	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	-	-	-	-	-
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	-	-	-	-	-
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					
	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, FC, FERV & Hedging cost) included in C(a) above	-	-	-	-	-


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



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

PART-III
FORM-4B

Statement of Capital Works in Progress

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: 132 KV A.P.Carbides - Alampur - II

		(Amount in Rs.Lakh)				
S.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	-	-	-	-	-
B	a) Addition/ Adjustment in CWIP Amount during the period	-	-	-	-	-
	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	-	-	-	-	-
	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	-	-	-	-	-


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


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


PART-III
FORM-6

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 Communication System: 132 KV A.P.Carbides - Alampur - II

(Amount in Rs.Lakh)

Particulars	Financial Package as Approved		Financial Package as on COD		As Admitted on COD	
	Currency 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						
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				
Total Cost		160.67		180.35		180.35
	Debt	Equity	Total			
Add cap for 2013-14	-	-	-			
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	-	-	-			
	126.24	54.10	180.35			
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.						


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



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

PART-III
FORM-8Calculation of Return on Equity

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: 132 KV A.P.Carbides - Alampur - II

(Amount in Rs Lakh)

Sl. 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.	-	-	-	-	-
1.3	Closing Equity	54.10	54.10	54.10	54.10	54.10
1.4	Average Equity	54.10	54.10	54.10	54.10	54.10
1.5	Return on Equity(%)	15.500	15.500	15.500	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 ⁴	12.89	12.89	12.89	12.89	12.89


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


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


PART-III
FORM-9C


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-I					
Gross loan - 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 loan	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, Vidya Soudha,
Hyderabad - 500 082.


(Petitioner)
Transmission Corporation of Telangana Limited
Vidya Soudha, Q. No. 1, Vidya Soudha,
Hyderabad - 500 082.


PART-III
FORM-9E

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 Communication System: 132 KV A.P.Carbides - Alampur - II

(Amount in Rs.Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	5	4	5
Gross loan - 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 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


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


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

**PART-III
FORM-10A**

Statement of Depreciation

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

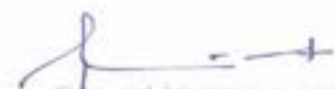
Name of the Project:

132 KV A.P.Carbides - Alampur - II

Name of the Transmission Element or
Communication System

(Amount in Rs.Lakhs)

Sl.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	4	5	6	6	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	180.35
3	Average Capital Cost	180.35	180.35	180.35	180.35	180.35
4	Freehold land	-	-	-	-	-
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	80.85	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	-	-	-	-	-
13	Net Cumulative depreciation at the end of the period	52.89	62.41	71.94	81.46	90.98


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


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

PART-III
FORM-11

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: **132 KV A.P.Carbides - Alampur - II**

(Amount in Rs.Lakh)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	O & M Expenses	1.37	1.41	1.46	1.51	1.57
2	Maintenance Spares	2.46	2.54	2.63	2.72	2.82
3	Receivables	6.01	5.95	5.90	5.84	5.80
4	Total Working Capital	9.83	9.91	9.99	10.08	10.18
5	Rate of Interest	13.50%	13.50%	13.50%	13.50%	13.50%
6	Interest on Working Capital	1.33	1.34	1.35	1.36	1.37


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


 (Petitioner)
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

SATYANARAYANA AND ASSOCIATES
CHARTERED ACCOUNTANTS

 ASSET NO XXXVIII & XXXIX - 400 KV VELTOOR - URAVAKONDA
 I & 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 Veltor - Uravakonda I & II is detailed as under:

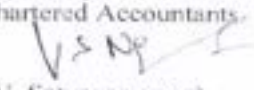
(Amount in Lakhs)									
S. No.	Particulars	Freehold Land	Buildings and Civil Works	Tr. Lines	Sub-Station	PLCC/Communication System	IT Equipment including Software	Total	IDC Included in the Total
1	Expenditure from 01.04.2014 to 31.03.2015			6979.94				6979.94	732.89
2	Expenditure from 01.04.2015 to 31.03.2016			6249.37				6249.37	656.78
3	Expenditure from 01.04.2016 to 31.03.2017			5170.74				5170.74	542.93
4	Expenditure from 01.04.2017 to 31.03.2018			392.48				392.48	41.21
5	Expenditure from 01.04.2018 to 31.03.2019			12.59				12.59	1.32
	Total			18805.12				18805.12	1974.24


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. 20204487AAAACF2367

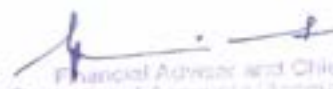

 Chief Engineer/Comd & RAO
 TSTRANS-02, Vidyut Soudha,
 Hyderabad - 500 002.


PART-III
FORM-1Summary Sheet**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 Communication System: 400KV Velloor - Uravakonda I & II

(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	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


 Financial Adviser and Chief
 Controller of Accounts (Accountal) &
 Chief Financial Officer
 TSP&NESCO, Noida Boudha,
 Hyderabad - 500 082.



 (Petitioner)
 Chief Engineer/Control & RAC
 TSP&NESCO, Vidyut Boudha,
 Hyderabad - 500 082.

PART-III
FORM-3Normative parameters considered for tariff computations**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 Communication System: **400KV Veltoor - Uravakonda I & II**

(Amount in Rs.Lakh)

Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
Base Rate of Return on Equity	%	15.500	15.500	15.500	15.500	15.500
Tax Rate	%	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	%	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
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 Accounts (Accounts)
 Chief Financial Officer
 TSTPL/SCO, Vidyut Soudha,
 Hyderabad - 500 062.


 (Petitioner)
 Chief Engineer/Comm & RAO
 TSTPL/SCO, Vidyut Soudha,
 Hyderabad - 500 062.

**PART-III
FORM-4**

**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: 400KV Veltour - Uravakonda I & II

(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)	22,513.00
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	


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


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

PART-III
FORM-4A

Statement of Capital cost

Asset XXXVIII& XXXIX

Name of the Petitioner:

Transmission Corporation of Telangana Limited

Name of the Region:

Telangana

Name of the Project:

400KV Veltor - Uravakonda I & II

Name of the Transmission Element or
Communication System

(Amount in Rs.Lakh)

S.No.	Particulars	2019-20	2020-21	2021-22	2022-23	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	-	-	-	-	-
B	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, FC, FERV & Hedging cost) included in B(a) above	-	-	-	-	-
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					
	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	-	-	-	-	-



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Chief Engineer (Control & RAC)
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Hyderabad - 500 052.

PART-III
FORM-4B

Statement of Capital Works in Progress

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
Communication System:

400KV Vellore - Uravakonda I & II

(Amount in Rs.Lakh)

S.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	-	-	-	-	-
B	a) Addition/ Adjustment in CWIP Amount during the period	-	-	-	-	-
	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	-	-	-	-	-
	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	-	-	-	-	-


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Hyderabad - 500 052.

PART-III
FORM-6

Financial Package upto COD

Asset XXXVIII& XXXIX

Name of the Petitioner:

Transmission Corporation of Telangana Limited.

Name of the Region:

Telangana


Name of the Project:

400KV Veltor - Uravakonda I & II

Name of the Transmission Element or
Communication System

(Amount in Rs.Lakh)

Particulars	Financial Package as Approved		Financial Package as on COD		As Admitted on COD	
	Currency and Amount		Currency and Amount		Currency and Amount	
1	2	3	4	5	6	7
Loan-I		15759.10		13163.59		13163.59
Loan-II						
Loan-III						
Total Loans		15759.10		13163.59		13163.59
Equity-		6753.90		5641.54		5641.54
Foreign						
Domestic						
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	-	-	-			
Add cap for 2014-15	-	-	-			
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				
Debt						
Equity						
Total						
Add cap for year-2	Actual	Normative				
Debt						
Equity						
Total						
Total Capital Cost with add cap.						


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TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.

PART-III
FORM-8Calculation of Return on Equity**Asset XXXVIII & XXXIX**

Name of the Petitioner: Transmission Corporation of Telangana Limited
 Name of the Region: Telangana
 Name of the Project: 400KV Velloor - Uravakonda I & II
 Name of the Transmission Element or Communication System:

(Amount in Rs,Lakhs)

Sl. 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	5641.54	5641.54	5641.54	5641.54	5641.54
1.2	Additional Capital made during the year.	0.00	0.00	0.00	0.00	0.00
1.3	Closing Equity	5641.54	5641.54	5641.54	5641.54	5641.54
1.4	Average Equity	5641.54	5641.54	5641.54	5641.54	5641.54
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*	1344.13	1344.13	1344.13	1344.13	1344.13


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 Hyderabad - 500 032.

**PART-III
FORM-9C**

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 Communication System: 400KV Veltoor-Uravakonda I&II

(Amount in Rs.Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Loan-I					
Gross loan - Opening	13,163.60	13,163.60	13,163.60	13,163.60	13,163.60
Cumulative repayments of Loans upto previous year	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	1232.89	1068.09	923.29	778.49	633.70
Loan repayment effective from (date to be indicated)					


(Petitioner)

Chief Engineer/Comm & RAO
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Hyderabad - 500 082.


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Chief Financial Officer
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Hyderabad - 500 082.

PART-III
FORM-9ECalculation 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 Communication System: 400KV Velthor - Uravakonda I & II

(Amount in Rs.Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	5	4	5
Gross loan - 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 ACI/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 loan - 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


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PART-III
FORM-10A


Statement of Depreciation

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 Communication System: 400KV Velloor - Uravakonda I & II

(Amount in Rs.Lakh)

Sl.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	18805.13	18805.13	18805.13	18805.13	18805.13
2	Closing Capital Cost	18805.13	18805.13	18805.13	18805.13	18805.13
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	18924.62	18924.62	18924.62	18924.62	18924.62
7	Balance useful life at the beginning of the period	22	21	20	19	18
8	Remaining depreciable value	13040.63	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	3363.97	4356.88	5349.79	6342.70	7335.61
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	-	-	-	-	-
13	Net Cumulative depreciation at the end of the period	3363.97	4356.88	5349.79	6342.70	7335.61


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 Chief Engineer/Comm & RAO
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 062.

PART-III
FORM-11Calculation 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:
 Name of the Transmission Element or Communication System: 400KV Veltor - Uravakonda I & II

(Amount in Rs.Lakh)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
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


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 Hyderabad - 500 082.

SATYANARAYANA AND ASSOCIATES

CHARTERED ACCOUNTANTS

ASSET No. XXXX & XXXXI - 400 KV SURYAPETA - KV KOTA I & 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 Suryapeta -KV Kota I & II is detailed as under:

S. No	Particulars	Freehold Land	Buildings and Civil Works	Tr. Lines	Sub-Station	PLCC/Communication System	IT Equipment including Software	(Amount in Lakhs)	
								Total	IDC Included in the Total
1	Expenditure from 01.04.2013 to 31.03.2014			131.53				131.53	13.81
2	Expenditure from 01.04.2014 to 31.03.2015			6292.69				6292.69	561.73
3	Expenditure 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	236.73
5	Expenditure from 01.04.2017 to 31.03.2018								
6	Expenditure from 01.04.2018 to 31.03.2019								
	Total			22927.46				22927.46	2407.38

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

V. S. V. R.

(CA. V. Satyanarayana)

Partner,

M. NO. 204487

FRN: 007663S

UDI No. 20204487AAAAACE4644

H. V. S. R.
Chartered Accountant & FRC
107, Vidyut Soudha, Vidyut Soudha,
Hyderabad - 500 082.



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PART-III
FORM-1Summary Sheet**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 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


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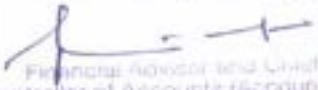

 (Petitioner)
 Chief Engineer/Comm & RAC
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 Hyderabad - 500 082

PART-III
FORM-3Normative 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 Rs.Lakh)

Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
Base Rate of Return on Equity	%	15.500	15.500	15.500	15.500	15.500
Tax Rate	%	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	%	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
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%


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 Hyderabad - 500 082.


**PART-III
FORM-4**

**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: 400KV Suryapeta -KV Kota I & II

(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	
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	


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**PART-III
FORM-4A**

Statement of Capital cost

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

(Amount in Rs.Lakh)

S.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	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					
	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	-	-	-	-	-
B	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	-	-	-	-	-
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	-	-	-	-	-
C	a) Closing Gross Block Amount as per books	22927.46	22927.46	22927.46	22927.46	22927.46
	b) Amount of capital liabilities in C(a) above					
	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	-	-	-	-	-


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Chief Engineer/Control & B&G
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.

**PART-III
FORM-4B**

Statement of Capital Works in Progress

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
Communication System

400KV Suryapeta -KV Kota I & II

(Amount in Rs.Lakh)

S.No.	Particulars	2014-20	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	-	-	-	-	-
B	a) Addition/ Adjustment in CWIP Amount during the period	-	-	-	-	-
	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	-	-	-	-	-
	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	-	-	-	-	-


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PART-III
FORM-6

Financial Package upto COD

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

(Amount in Rs Lakh)

Particulars	Financial Package as Approved		Financial Package as on COD		As Admitted on COD	
	Currency and Amount		Currency and Amount		Currency and Amount	
1	2	3	4	5	6	7
Loan-I		16176.09		16049.22		16049.22
Loan-II						
Loan-III						
Total Loans		16176.09		16049.22		16049.22
Equity-		6932.61		6878.24		6878.24
Foreign						
Domestic						
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	-	-	-			
Add cap for 2014-15	-	-	-			
Add cap for 2015-16	-	-	-			
Add cap for 2016-17	16049.22	6878.24	22927.46			
Add cap for 2017-18	-	-	-			
Add cap for 2018-19	-	-	-			
	16049.22	6878.24	22927.46			
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.						


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(Petitioner)

Chief Engineer/Comm & RAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 062.

PART-III
FORM-8


Calculation of Return on Equity

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 Rs.Lakh)

Sl. 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	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	Closing 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*	1638.78	1638.78	1638.78	1638.78	1638.78


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


 (Petitioner)
 Chief Engineer/Comm & P.O.
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 062.


PART-III
FORM-9C

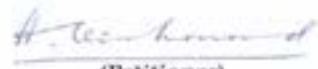
Calculation of Weighted Average Rate of Interest on Actual Loans
Asset XXXX & XXXXI

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: 400 KV Suryapet-KV Kota I&II

(Amount in Rs.Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Loan-1					
Gross loan - 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)					


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



(Petitioner)
Chief Engineer (Comm) & RAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.

PART-III
FORM-9ECalculation of Interest on Normative Loan**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 Rs.Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	5	4	5
Gross loan - 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 loan - Closing	11876.90	10666.33	9455.76	8245.19	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 loan	1373.04	1239.88	1106.72	973.55	840.39


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


 (Petitioner)
 Chief Engineer/Comm & RAC
 TSTRANSCO, Vidyut Goudha,
 Hyderabad - 500 082.

PART-III
FORM-10AStatement of Depreciation**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 Rs.Lakh)

Sl.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	22927.46	22927.46	22927.46	22927.46	22927.46
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	Freehold land	-	-	-	-	-
5	Rate of depreciation	5.28%	5.28%	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	18
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,
Hyderabad - 500 082.


(Petitioner)
Chief Engineer/Comm'l & PAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.

**PART-III
FORM-11**

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:
 Name of the Transmission Element or Communication System: **400KV Suryapeta -KV Kota I & II**

(Amount in Rs.Lakh)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
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 Soudha,
 Hyderabad - 500 082.


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

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:

1. 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 Nalgonda 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.
2. 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 implement LILO of both circuits of Malkaram – VTPS 400kV DC line at Suryapet 400kV SS instead of LILO of only one circuit.
3. 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.
5. 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.

6. 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-II/ TSTRANSCO, Vidyut Soudha, Hyderabad is requested to provide the necessary budget and the scheme ID.
7. 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

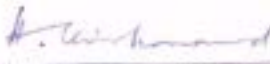
DIRECTOR/ PROJECTS & LI

To
The Chief Engineer/ Projects-II/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.
5. 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.
12. 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.
17. 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-II/SE/PM-II/400kV


Chief Engineer, Projects & LI
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 032

Annexure to T.O.O.(CE-Projects-I) Ms.No. , dt: .03.2016.

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

Sl. No.	Description of Line/ Substation	Capacity/Length/ No. of bays		Amount in Rs.Lakhs
A:400kV Transmission System:				
1	400/220/132 kV Suryapet Substation	2x315 & 2x100	MVA	13140.84
2	400kV Bay Extensions (Quad) at Shankarapalli Substation.	2	Nos.	
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: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/Control & PAC
 TSTRANSOCO, Vidyalaguda,
 Hyderabad - 500 092.

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 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 Shalagowraram 132 kV SS	1	No.	66.40
(iii)	132 kV Bay Extensions at Thungathurthy 132 kV SS	1	No.	66.40
	Sub-Total:			2956.39
D : Communication Equipment (approx.):				
(i)	400kV Works	LS		1500.00
(ii)	220kV Works	LS		
(iii)	132kV Works	LS		
	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

H. Lakshmi
 Chief Engineer/Comm & RAO
 TSTRA NSCO, Vidyut Soudha,
 Hyderabad - 500 092

**CHIEF ENGINEER
 Projects-I**

TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

Erection of 400/220/132kV Suryapet substation, in Nalgonda 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.

2. 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.
3. 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)
 - ii) Erection of LILO of one circuit of 400kV VTS – Malkram DC line to the proposed 400/220/132kV Suryapet Substation – 5 kM
 - iii) Erection of 400kV Quad Moose DC line from 400/220kV Kamavarapukota SS- Suryapet 400/220/132kV SS – 212 kM
 - iv) Erection of 400kV Quad Moose DC line from Yeddumailaram SS – Proposed 400kV Suryapet SS – 240 kM
 - v) 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 (Comm & PAC)
 TOSTRANSCO, Vidyalaya Road,
 Hyderabad - 500 062

Contd....2

-2-

- viii) Erection of 132kV DC/SC line from proposed 400/220/132kV Suryapet to 132kV existing Shaligowraram Substation – 35 kM
 - ix) Erection of 132kV DC/SC line from proposed 400/220/132kV Suryapet to 132kV existing Thungathurthy Substation – 30 kM
 - x) 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.
 5. The Chief Engineer/Construction/400 kV- I & II and the Chief Engineer/ Construction-I, 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).
 7. 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

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

Contd...3


Chief Engineer/Commf & RAC
TSTP/SCO, Vidyut Soudha,
Hyderabad - 500 042.

:: 3 ::

Copy to the :

1. The Chief Engineer/ Construction-II/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/vidyut Soudha/Hyderabad,
6. Chief Engineer/Power Systems/APTRANSCO/Vidyut Soudha/Hyderabad,
7. Chief Engineer/Grid Operation/APTRANSCO/ Vidyut Soudha /Hyderabad,
8. Chief General Manager/HRD & Trg./ APTRANSCO/ Vidyut Soudha/Hyderabad,
9. 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, Comm., 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.

H. V. Lakshmi
 Chief Engineer/Comm & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

:: 4 ::

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

Sl. No.	Description of Line/ Substation	Capacity/Length/ No. of bays	Amount in Rs.Lakhs
A: 400kV Transmission System:			
1	400/220/132 kV Suryapet Substation	2x315 & 2x100 MVA	13140.84
2	400kV Bay Extensions (Quad) at Shankarapalli Substation	2 Nos.	
3	LILLO 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	LILLO 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 LILLO 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

:: 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 Shalogowraram 132 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	LS		1500.00
(ii)	220kV Works	LS		
(iii)	132kV Works	LS		
	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

H. Anand
 Chief Engineer/Comm & RAC
 TSTRANCO, Vidut Soudha,
 Hyderabad - 500 062.

REC

RURAL ELECTRIFICATION CORPORATION LIMITED
(A Government of India Enterprise)

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

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

No.REC/T&D/P:SI(Transmission)/Sanctn Lr/14-15/ 28 Dated: 01-05-2014

To
The Chairman and Managing Director
APTRANSCO
Vidyut Soudha
Hyderabad

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 Suryapet sub-station, 400KV D/C Line from proposed suryapet Sub station to Kamavarapukata & Shankarpalli Sub station, 132 KV D/C line from proposed Suryapet sub station to existing Suryapet, Shaligowaram & Thungathurthy Sub station and LILU 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.

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 contribution on (Equity component 1) (10%)	Loan Sanctd.# (Rs.lakhs) (90% of Project cost)	Extent of financing (% of loan to cost)
Scheme for erection of 400/220/132 KV Suryapet sub-station, 400KV D/C Line from proposed suryapet Sub station to Kamavarapukata & Shankarpalli Sub station, 132 KV D/C line from proposed Suryapet sub station to existing Suryapet, Shaligowaram & Thungathurthy Sub station and LILU 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	Nalgonda, Rangareddy, Khammam and West Godavari	8267	157589.77	17124.89	174714.66	17471.47	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.

Handwritten Signature
Chief Engineer, Control & RAG
APTRANSCO, Vidyut Soudha,
Hyderabad - 500 002.

REC

Scheme code nos AP-TD-TRM-001-2014-8267

1. The aforesaid term loan is subject to the following pre-disbursement condition and other conditions as indicated below:
 - a) **Pre-Disbursement Condition:**
 - i) The disbursement against the elements (lines, substation etc.) shall be made only after the Regulatory Commission approves the expenditure for that element.
 - ii) 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:**
 - i) 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 phased completion of transmission project to avoid both power evacuation constraints vis-à-vis creation of standard assets. A quarterly monitoring report in this regard shall be submitted to REC.
2. 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 within 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 set out 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 within 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 in any way be construed as giving rise to any binding obligation on the part of REC.
5. 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)

(N. Venkatesan)
Chief Project Manager

Enclosed : n/a

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H. Venkatesan
Chief Engineer/Control & NAC
TSTRW/REC, Vidyut Soudha,
Hyderabad - 500 082.

REC

Scheme code nos AP-TD-TRM-001-2014-8267

To, Jy 40: -

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



Chief Engineer/Control & RAC
APTRANSCO, Vidyut Soudha,
Hyderabad - 500 052.

REC

Scheme code nos AP-TD-TRM-001-2014-8267

Annexure-1 to letter No. _____ dated _____

General Terms and Conditions for T&D loans to State Sector Borrowers

1. Details of sanctioned loan

Sl. No	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 contribution (Equity component) (10%)	Loan Sanctd.# (Rs.lakhs) (90% of Project cost)	Extent of financing (% of loan to cost)
1	Scheme for erection of 400 /220/132 KV Suryapet sub-station, 400KV D/C Line from proposed suryapet Sub statio to Kamavarapukota & Shankarpalli Sub station, 132 KV D/C lin from proposed Suryapet sub station to existing Suryapet, Shailgouraram & Thengathurthy Sub station and LJLO 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.	Nalgonda, Rangareddy, Khammam and West Godavari	8267	157589.77	17124.89	174714.66	17471.47	157243.19	90
	Total			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.
3. **Loan Agreement:** The Borrower shall execute within three months time or such extended period, as the case may be, a Loan Agreement (referred 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 1st 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 draws 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.

K. Anand
 Chief Engineer/Control & RAC
 T&D/REC, Vajra Road,
 Hyderabad - 500 082

- 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.
- c) Works completed within one year prior to issue of sanction letter is also admissible for reimbursement under the scheme.

6. Pre Commitment Conditions:

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

- a) "That the loan 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".
- b) 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.
- c) 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

- a) 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.
- b) 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.

REC

Scheme code nos AP-TD-TRM-001-2014-8267

- 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 loan policy circular/guidelines of the loan 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 enhance 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.

REC

Scheme code nos AP-TD-TRM-001-2014-8267

- 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.

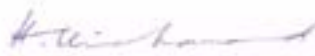
10. Loan Repayment/ Moratorium Period

- 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/Control & RAC
 TSTFANSCO, Vayalil Junction,
 Hyderabad - 500 082.

REC

Scheme code nos AP-TD-TRM-001-2014-8267

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 Rupee 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 governments 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.

a) 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 deficiency.

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.

c) 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.

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H. Vishwanath
Chief Engineer, Comm & RAG
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 002.

REC

Scheme code nos AP-TD-TRM-001-2014-8267

- (ii) Project assets to be created shall be Mortgaged/ hypothecated/Assigned in favour of REC, and further, BORROWER during the pendency of REC loan, shall not mortgage/hypothecate these assets in favour of any institution other than REC without prior written permission from REC.
- (iii) It shall be endeavour for the Borrower to ensure registration of charge with the Registrar of Companies (ROC), and/or, with any other statutory authority in this regard, as the case 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.

15. 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

- a) 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/ financial progress.
- b) 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:
 - i) 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.
- c) 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.
- d) 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.
- e) 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 implementation of the Project.
- f) 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 Lender.

REC

Scheme code nos AP-TD-TRM-001-2014-6267

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.
- d) BORROWER not to transfer or abandon the project at any stage or in any manner whatsoever without prior written consent of REC.
- e) BORROWER will be required to display board at the site showing that the project is financed by REC.
- f) No dividend would be declared by BORROWER if there is any default to the REC's loan.

21. Maintenance 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.

Page 10 of 13

A. Uthman
 Chief Engineer/Comm & PAC
 T&T/ANSCO, Vidyut Boudha,
 Hyderabad - 500 082.

REC

Scheme code nos AP-TD-TRM-001-2014-8267

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/Genl. & RAO
T&T TRANSCO, Vidya Soudha,
Hyderabad - 500 002.

REC

Scheme code nos AP-TD-TRM-001-2014-S267

Appendix 1

1. **Conditions to be fulfilled before start of disbursement**
 - (i) Creation of security as per REC policy and execution of the prescribed loan and security documents.
 - (ii) fulfillment/compliance of all terms and conditions for such disbursement as per the clauses of the sanction letter
 - (iii) Acquisition of land for sub stations for which disbursement of loan against the sub station is requested (wherever applicable).
2. **General Conditions for disbursement**
 - (i) Mobilisation advance to the utility/borrower and advance to be paid to turnkey contractor will be 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 payment of advance.
 - (ii) In case of advance payment, the extent of advance would be limited to:
 - a) Loan amount more than Rs. 100 cr – upto 10% of loan amount
 - b) Loan amount more than Rs. 50 cr but is upto Rs. 100 cr - Upto 15% of the loan amount
 - c) Loan amount upto Rs. 50 cr – Upto 20% of loan amount.
 - (iii) Any disbursements by REC against the project shall be on pro rata reimbursement basis for 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.
 - (iv) In case of reimbursement based on progress report submitted by the utility (i.e reimbursement 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/FIs. 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 REC.
 - (v) Direct payment to contractors/suppliers is permissible, if desired by the utility, as per prevailing policy of REC from time to time.
 - (vi) In case the award cost of the project, together with any establishment/administration/other costs 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.
 - (vii) In case the specific scheme cost is subsequently reduced by the regulator, the utility shall 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

REC

Scheme code has AP-TD TRM 001-2014-8766

Utility requests for additional loan, decisions will be taken on their merits depending on the merits of the case.

- (viii) Physical progress made against the scheme within one year prior to actual sanction, could be considered as permissible expenditure for reimbursement. Claims submitted within a period of one month after the completion of scheme period, for work done within the scheme period will be considered for release. In this case, scheme completion period is the scheme implementation period sanctioned, reckoned from the date of first disbursement.
- (ix) In case of SPA schemes, the 1st installment of loan will be released on closure of operations under ongoing scheme in that area.
- (x) The RAPDRP projects will not be eligible for first instalment as advance as GoI loan of 15% is 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 submission of the first claim.
- (xi) For R-APDRP Projects, The period for completion of the project, loan closing date and date for admissibility of claims for expenditure shall be as per PFC/GoI sanction.
- (xii) For APDRP schemes, In case the scheme cost is revised subsequently by the Steering Committee, the utility would furnish the details 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.
- (xiii) For Bulk Loan Schemes, the release would be up to 90% of the invoice value of the equipment/material supplied, after pro-rata adjustment of initial advance if any. Each claim shall also be supported by the following documents:
 - a. The original invoice, along with a copy of the invoice for each consignment, should be attached with the claim duly 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 financed by the REC under scheme code no. _____"
 - b. 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 issue to the field officer for installation should support this.
 - c. 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.
 - d. 10% of the retained individual invoice value, would be released after the borrower certifies that equipment/material has actually been installed in the field.

3. Monitoring

Monitoring of all projects shall be as per the applicable monitoring guidelines of REC. Bulk Loan schemes are exempt from monitoring.

Page 13 of 13

H. Wickramaratne
 Chief Engineer/Control & RAC
 TST/ANSCO, Mohit Soudha,
 Hyderabad - 500 082.

Sanction Parameters of P:SI schemes

Category: P:SI (Transmission)
 State: Andhra Pradesh
 Utility: APTRANSCO

Annexure-A
 2014-15

Sl. No.	Name of the P:SI scheme	Name of State	Scheme Code no.	Project Cost Excl. IDC (Rs. In Lakhs)	IDC* (Rs. In Lakhs)	Project Cost Incl. IDC (Rs. In Lakhs)	Loan Amount (Rs. In Lakhs)	Project Period	Internal Rate of Return
1	Scheme for erection of 400/220/132 kV Suryapet sub-station, 400 KV D/C line from Proposed Suryapet SS to Kamavarampuzota & Shanikarpalli SS, 132 KV D/C line from Proposed Suryapet SS to existing Suryapet, Shaligowaram & Thungathurthy SS and LLEO of 400KV and 220 KV lines.	Andhra Pradesh	8267	187559.77	17124.89	174714.66	15723.19	9	9

*Loan amt. is restricted to 90% of scheme cost, as the security is proposed by way of hypothecation of future 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 REC Project office

K. V. Lakshmi
 Chief Engineer/Control & PAC
 TSTANSCO, Wajal Boudha,
 Hyderabad - 500 092

Sanction Parameters for P181 scheme
P181 (Transmission)
Aadhara Pradesh
APTRANSCO

Аннотация
2014-15

[illegible]

Richard

Česká zemědělská banka a.p.s.
Třtávek, vojá ská
Hydrant - 400 082

Page No.

Project Name

State

Andhra Pradesh

Name

Scheme for extension of 400/220/132 kV Suryapet sub station, 400 KV D/C line from Proposed Suryapet SS to Kammarapukota & Shankarpalli SS, 132 KV D/C line from Proposed Suryapet SS to existing Suryapet, Shaligowaram & Thungathurthy SS and LLO of 400KV and 220 KV lines.

(Rs. in Lakhs)

Sl.No.	Particulars	Unit	Qty	Cost per unit	Total amount
A	400 KV works				
1	400/220/132 kV Substation at Suryapet (1x315 / 2x100)	No.	1	10668.30	10668.30
2	400 KV bay extension at Shankarpalli SS	No.	2	836.29	1672.57
3	LLO S/C of 400 KV VTS-Malkaram D/C line to Proposed Suryapet SS	Kms	5	176.00	880.00
4	400 KV Quad D/C line from Kammarapukota SS to Proposed Suryapet SS	Kms	210	277.46	58326.32
5	400 KV Quad D/C line from Proposed Suryapet SS to Shankarpalli SS	Kms	240	235.43	56504.35
B	220 KV works				
1	LLO S/C of 220 KV Chullakalra-Narikatpally D/C line at Proposed Suryapet SS	Kms	21	69.84	1466.64
2	LLO of 220 KV Miryalaguda-Khammam line at Proposed Suryapet SS (2 x 7 / C)	Kms	2x30	69.94	4190.40
C	132 KV works				
1	132 KV D/C line from Existing Suryapet SS to Proposed Suryapet SS	Kms	7	44.17	309.19
2	132 KV S/C line on D/C tower from Shaligowaram SS to Proposed Suryapet SS	Kms	35	36.64	1282.40
3	132 KV S/C line on D/C tower from Thungathurthy SS to Proposed Suryapet SS	Kms	30	36.64	1099.20
4	132 KV bay extension at 132 KV Suryapet SS	No.	2	66.40	132.80
5	133 KV bay extension at 132 KV Shaligowaram SS	No.	1	66.40	66.40
6	134 KV bay extension at 132 KV Thungathurthy SS	No.	1	66.40	66.40
D	Communication equipments	Lot	1	1500.00	1500.00
	Sub Total				126789.98
	Special T&P*				1367.81
	Sub Total				138148.79
	Contingencies @3%				4144.46
	Sub Total				142293.25
	Establishment & others (10.75%)				15296.52
	Total Project Cost (Excluding IDC)				157589.77
	IDC#				17124.89
	Total Project Cost (Incl. IDC)				174714.66
	Total Loan Amount @ 90%				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. Venkanna
 Chief Engineer, Electrical & DM
 T&E, REC, VVVD, Suryapet
 Hyderabad - 506 002

TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

Evacuation of Wind Power in Kadapa, Anantapur and Kurnool 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, Thalamanchipetnam (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 73 kV features at 2 Nos. 220kV Substations at Betamcharla 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 -I, enclosed.

Chief Engineer/Comm'l & FAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.

Concl...2

:2::

5. The Chief Engineer/Construction/400 kV and the Chief Engineer/Construction-II, Vidyut Soudha, Hyderabad are hereby 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).
8. This order is issued with the concurrence of the Director (Finance & Revenue) vide Pegd No.963, dated :06.03.2013.

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

Encl: Annexure I&II

B.UMAKAR RAO
DIRECTOR/ PROJECTS
APTRANSCO

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

// FORWARDED BY ORDER //

A. Soudha
Divisional Engineer
Construction/400kV

H. Lakshmi
Chief Engineer/General & RAC
APTRANSCO, Vidyut Soudha,
Hyderabad - 500 002.

Contd. 3

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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/ Vidyut 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, Comm., 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,
20. P.S to the Director (Transmission)/ APTRANSCO/ VS/Hyderabad,
21. Chief Engineer/Metro Zone/ APTRANSCO/ Hyderabad,
22. Chief Engineer/Rural Zone/ APTRANSCO/ Hyderabad,
23. Chief Engineer/Zone/APTRANSCO/Vijayawada,
24. Chief Engineer/Zone/APTRANSCO/Visakhapatnam,
25. Chief Engineer/Zone/APTRANSCO/Kadapa,
26. Chief Engineer/Zone/APTRANSCO/Warangal,
27. Superintending Engineer/PM-I/400kV/APTRANSCO/ Vidyut Soudha/Hyderabad,
28. Superintending Engineer/PM-II/400kV /APTRANSCO/ VS/Hyderabad,
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.

Handwritten Signature
 Chief Engineer/Control & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 002

Abstract Estimate :: Evacuation of Wind Power in Kadapa, Anantapur and Kurnool districts of Andhra Pradesh				
ABSTRACT ESTIMATE				
(Amount in Lakh Rs.)				
Sl. No.	Description of Line/ Substation	Length/ Capacity	Estimated Cost	
A: 400kV Hindupur Substation:				
1	400/220kV Substation at Hindupur - 3 Nos. 315 MVA PTRs	3x315 MVA	11,42,90	
2	60 MVAR Bus Reactor	1 No.	96.00	
3	400kV DC Quad Moose Line from Hindupur SS to 400kV Urvakonda SS	130 km	31,200.00	
4	400kV DC Quad Moose Line from Hindupur SS to proposed 765/400 kV Madhugiri SS	40 km	8,000.00	
5	400kV Quad Bay Extensions at Madhugiri (PGCIL) Substation	2 Nos.	1,210.75	
6	220kV DC Moose Line from 400kV Hindupur SS to 220kV Penukonda SS	50 km	3,492.00	
7	220/132 kV Substations at Penukonda	2x100 MVA	1,901.43	
8	220kV DC Twin Moose line from 400kV Hindupur SS to 220kV Patipatnam Tenda SS	60 km	10,701.00	
9	220/132 kV Substation at Patipatnam Tenda	2x100 MVA	2,118.14	
Sub-Total (A):			72,711.22	
B: 400kV Jammalamadugu Substation:				
1	400/220/132kV Substation at Jammalamadugu	4x315 & 2x100 MVA	14,119.13	
2	400kV Quad Bay Extensions at Kurnool 400kV Substation	2 Nos.	1,118.80	
3	60 MVAR Bus Reactor	1 No.	155.00	
4	400kV DC Quad Moose Line from 400kV Jammalamadugu to 400kV Kurnool SS	125 km	30,000.00	
5	400kV DC Quad Moose Line from 400kV Jammalamadugu to 400kV Urvakonda SS	110.00 km	25,400.00	
6	220kV DC Moose line from 400kV Jammalamadugu SS to 220kV Tirumalapally SS	17 km	1,187.28	
7	220/132 kV Substation at Tirumalapally	2x100 MVA	2,189.65	
8	220kV DC Moose line from 400kV Jammalamadugu SS to 220kV Betamcherla	68 km	4,191.12	
9	220/132/33 kV Substation at Betamcherla	2x100 & 2x31.5 MVA	2,104.51	
10	220kV DC Moose line from 400kV Jammalamadugu SS to 220kV Chakravarthy SS	70 km	4,388.80	
11	220/132/33 kV Substation at Chakravarthy	2x100 & 2x31.5 MVA	2,135.09	
12	220kV DC Moose line from 400kV Jammalamadugu SS to 220kV Porumamilla SS	75 km	3,338.00	
13	220/132 kV Substation at Porumamilla	2x100 MVA	1,908.28	
Sub-Total (B):			89,427.64	
C: 400kV Urvakonda Substation:				
1	400/220kV Substation at Urvakonda	4x315 MVA	14,225.01	
2	400kV Quad Bay Extensions at Mahabubnagar 400kV Substation	2 Nos.	1,943.35	
3	60 MVAR Bus Reactor	1 No.	96.00	
4	400kV DC Quad Moose line from 400kV Urvakonda SS to 400kV Mahabubnagar SS	190 km	45,600.00	
5	220kV DC Twin Moose line from 400kV Urvakonda SS to 220kV Vajrakur SS	13 km	1,545.70	
6	220/132 kV Substation at Vajrakur	1x100 MVA	1,555.16	
7	220kV DC Twin Moose line from 400kV Urvakonda SS to 220kV Borampalli SS	68 km	685.70	
8	220/132 kV Substation at Borampalli	1x100 MVA	1,555.10	
Sub-Total (C):			71,475.49	

D:220kV Interconnectivities:				
1	220kV DC Moose line from 400kV Hindupur SS to 220kV Hindupur Substation	20	km	1,305.00
2	220kV DC Moose line from 400kV Unravakonda SS to 220kV Kalyandurg SS	80	km	3,492.00
3	ULO of both the circuits of 220kV DC Moose line from 400kV Unravakonda SS to 220kV Kalyandurg SS at 220kV Borampalli SS	10	km	1,305.00
4	220kV DC Moose line from 400kV Jammalamadugu SS to 220kV Tadipatri SS	40	km	2,793.00
5	220kV Bay Extensions at 220kV Hindupur Substation	2	Nos.	221.00
6	220kV Bay Extensions at 220kV Kalyandurg Substation	2	Nos.	221.00
7	220kV Bay Extensions at 220kV Tadipatri Substation	2	Nos.	221.00
Sub-Total(D):				9,744.00
E:132 kV Interconnectivities:				
1	132 kV DC line from 220/132 kV Perukonda SS to 132/33 kV Perukonda SS	10	km	441.70
2	132 kV DC line from 400/220/132 kV Jammalamadugu SS to 132/33 kV Jammalamadugu SS	12	km	530.04
3	132 kV DC line from 220/132kV Ponnamilla SS to 132/33 kV Ponnamilla SS	10	km	441.70
4	132 kV Bay Extensions at 132/33 kV Perukonda Substation	2	Nos.	132.80
5	132 kV Bay Extensions at 132/33 kV Jammalamadugu Substation	2	Nos.	132.80
6	132 kV Bay Extensions at 132/33 kV Ponnamilla Substation	2	Nos.	132.80
Sub-Total(E):				1,611.84
F : Communication Equipment:				
(i)	400kV Works	LS		62,19.74
(ii)	220kV Works	LS		
(iii)	132kV Works	LS		
Total (A+B+C+D+E+F):				250,400.82
G	Special T & P @ 1% :			2,504.81
Total (A+B+C+D+E+F+G):				252,905.63
H	Contingencies (3%) :			7,587.17
Total including contingencies :				270,198.89
I	Extl. and other charges @ 10.75% :			29,067.08
Grand Total :				305,945.97
or Say (Rs. in Crores) ::				3,059.46
Interest During Construction (Rs. in Crores) :				314.79
Total (including IDC) - (Rs. in Crores) :				3,373.25

H. Vishwanath
 Chief Engineer/General A P & C
 TSTRANSO, Vidyalaya Road
 Hyderabad - 500 002

TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

Evacuation of Wind Power in Kaulapa, Anantapur and Kurnool districts of Andhra Pradesh -
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 PGCE, & CEA officials at Delhi, for evacuation of 3150 MW power from Wind Generators in Andhra Pradesh, at 400 kV level.

Accordingly Chief Engineer/Construction/400kV has formulated the following transmission scheme for evacuation of 3150 MW power from Wind Generators as proposed by Power Systems wing.

(I) Scope of the Comprehensive Scheme:

- (a) 400kV Hindupur Substation
- (i) 400/220kV Substation at Hindupur - 3 Nos. 315 MVA PTRs
- (ii) 80 MVAR Bus Reactor - 1 No.
- (iii) 400kV DC Quad Moose Line from Hindupur SS to 400kV Urvakonda SS - 130 km.
- (iv) 400kV DC Quad Moose Line from Hindupur SS to proposed 765/400 kV Madhugiri SS - 40 km (ISTS LINE).
- (v) 220kV DC Moose Line from 400kV Hindupur SS to 220kV Penakonda SS - 50 km.
- (vi) 220/132 kV Substations at Penakonda - 2 Nos. 100 MVA PTRs
- (vii) 220kV DC Twin Moose line from 400kV Hindupur SS to 220kV Pampur Tanda SS - 90 km
- (viii) 220/132 kV Substation at Pampur Tanda - 2 Nos. 100 MVA PTRs.
- (b) 400kV Kondapuram Substation:
- (i) 400/220kV Substation at Kondapuram - 4 Nos. 315 MVA PTRs
- (ii) 400kV Quad Bay Extensions at Kurnool 400kV SS - 2 Nos.
- (iii) 80 MVAR Bus reactor - 1 No.
- (iv) 400kV DC Quad Moose Line from 400kV Kondapuram to 400kV Kurnool SS - 125 km.
- (v) 400kV DC Quad Moose Line from 400kV Kondapuram to 400kV Urvakonda SS - 110 km.
- (vi) 220kV DC Moose line from 400kV Kondapuram SS to 220kV Tirumalaipally SS - 10 km
- (vii) 220/132 kV Substation at Tirumalaipally - 2 x 100 MVA PTRs
- (viii) 220kV DC Moose line from 400kV Kondapuram SS to 220kV Betamcherla SS - 78 km
- (ix) 220/132 kV Substation at Betamcherla - 2 x 100 MVA PTRs
- (x) 220kV DC Moose line from 400kV Kondapuram SS to 220kV Chakrapet SS - 60 km
- (xi) 220/132 kV Substation at Chakrapet - 2 x 100 MVA PTRs
- (xii) 220kV DC Moose line from 400kV Kondapuram SS to 220kV Porumamilla SS - 85 km
- (xiii) 220/132 kV Substation at Porumamilla - 2 x 100 MVA PTRs
- (xiv) 220kV DC Moose line from 400kV Kondapuram SS to 220kV Jamunamadugu SS - 30 km
- (xv) 220/132 kV Substation at Jamunamadugu - 2 x 100 MVA PTRs

H. V. S. S. S.
Chief Engineer/Comm & PAC,
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 082.

- (c) 400kV Uravakonda Substation
(i) 400/220kV Substation at Uravakonda - 4 Nos. 315 MVA PTRs
(ii) 400kV Quad Bay Extensions at Mahabubnagar 400kV SS - 2 Nos.
(iii) 80 MVAR Bus reactor - 1 No.
(iv) 400kV DC Quad Moose line from 400kV Uravakonda SS to 400kV Mahabubnagar SS - 190 km
(v) 220kV DC Twin Moose line from 400kV Uravakonda SS to 220kV Vajrakurur SS - 13 km
(vi) 220/132 kV Substation at Vajrakurur - 1 No. 100 MVA PTR
(vii) 220kV DC Twin Moose line from 400kV Uravakonda SS to 220kV Borampalli SS - 68 km
(viii) 220/132 kV Substation at Borampalli - 1 No. 100 MVA PTR
(d) 220kV Interconnectivities:
(i) 220kV DC Moose line from 400kV Hindupur SS to 220kV Hindupur Substation - 20 km
(ii) 220kV DC Moose line from 400kV Uravakonda SS to 220kV Kalyandurg SS - 50 km
(iii) 220kV DC Moose line from 400kV Kothapeta SS to 220kV Tadipatri SS - 30 km
(iv) 220kV Bay Extensions at 220kV Hindupur Substation - 2 Nos.
(v) 220kV Bay Extensions at 220kV Kalyandurg Substation - 2 Nos.
(vi) 220kV Bay Extensions at 220kV Tadipatri Substation - 2 Nos.
(e) 132 kV Interconnectivities:
(i) 132 kV DC line from 220/132 kV Penukonda SS to 132/33 kV Penukonda SS - 10 km
(ii) 132 kV DC line from 220/132 kV Jammalamadugu SS to 132/33 kV Jammalamadugu SS - 10 km
(iii) 132 kV DC line from 220/132kV Pottanur SS to 132/33 kV Pottanur SS - 10 km
(iv) 132kV Bay Extensions at 132/33kV Penukonda SS - 2 Nos.
(v) 132kV Bay Extensions at 132/33kV Jammalamadugu SS - 2 Nos.
(vi) 132kV Bay Extensions at 132/33kV Pottanur SS - 2 Nos.
3. After careful consideration, APTRANSCO accords administrative approval for the transmission scheme namely "Transmission of Wind Power in Kadapa, Anantapur and Kurnool districts of Andhra Pradesh" with the above scope of works at an estimated cost of Rs.2033.69 Crores and Rs.324.05 Crores towards Interest During Construction (IDC). The total cost of the scheme including IDC is Rs.3357.74 Crores, as per the Annexure - Enclosed.
4. The Chief Engineer/Construction-400 kV and the Chief Engineer/Construction-II, Vidyut Soudha, Hyderabad are hereby 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.
5. The Finance wing of APTRANSCO will be requested for funds tie up for the Phase -I works at an estimated cost of Rs.1776.76 Crores initially out of the estimated cost of Rs.3633.69 Crores and Interest During Construction of Rs.324.05 Crores (i.e. Rs.3357.74 Crores including IDC) for the Comprehensive Scheme.

H. Sridhar
Chief Engineer/Construction & PAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 052.

113:

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)
7. 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 ANDHRA PRADESH LIMITED)

Encl: Annexure I&II

[Signature]
DIRECTOR/ PROJECTS
APTRANSCO

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

[Signature]
Chief Engineer/Control & RAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 062.

Contd.

Copy to the:

1. The Chief Engineer/Construction/APTRANSCO/Vidut Soudha/Hyderabad,
2. The Chief Engineer/Civil/APTRANSCO/Vidut Soudha/Hyderabad,
3. Chief Engineer/Transmission/APTRANSCO/Vidut Soudha/Hyderabad,
4. Chief Engineer/Telecom/APTRANSCO/Vidut Soudha/Hyderabad,
5. Executive Director/Pig. SAC & Reforms/APTRANSCO/Vidut Soudha/Hyderabad,
6. Chief Engineer/Power Systems/APTRANSCO/Vidut Soudha/Hyderabad,
7. Chief Engineer/SLDC/APTRANSCO/Vidut Soudha/Hyderabad,
8. Chief Engineer/Lift Irrigation/APTRANSCO/Vidut Soudha/Hyderabad,
9. Chief General Manager/IRD & Trg/APTRANSCO/Vidut Soudha/Hyderabad,
10. FA & CCA (CF)/APTRANSCO/Vidut Soudha/Hyderabad,
11. FA & CCA (A.E.) & R/APTRANSCO/Vidut Soudha/Hyderabad,
12. FA & CCA (TR)/APTRANSCO/Vidut Soudha/Hyderabad,
13. P.S. to the Chairman & Managing Director/APTRANSCO/Vidut Soudha/Hyderabad,
14. P.S. to the Joint Managing Director (IRD, Comm., 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/Vidut Soudha/Hyderabad,
18. P.S. to the Director (Projects)/APTRANSCO/Vidut Soudha/Hyderabad,
19. P.S. to the Director (Grid Operation)/APTRANSCO/VS/Hyderabad,
20. P.S. to the Director (Transmission)/APTRANSCO/VS/Hyderabad,
21. Chief Engineer/Metro Zone/APTRANSCO/Hyderabad,
22. Chief Engineer/Rural Zone/APTRANSCO/Hyderabad,
23. Chief Engineer/Zone/APTRANSCO/Vijayawada,
24. Chief Engineer/Zone/APTRANSCO/Vishakhapatnam,
25. Chief Engineer/Zone/APTRANSCO/Kadapa,
26. Chief Engineer/Zone/APTRANSCO/Warangal,
27. Superintending Engineer/PM-1/400kV/APTRANSCO/Vidut Soudha/Hyderabad,
28. Superintending Engineer/PM-1/400kV/APTRANSCO/VS/Hyderabad,
29. Superintending Engineer/400kV L&SS/Mint compound/Hyderabad,
30. Superintending Engineer/400kV L&SS/Vijayawada,
31. Company Secretary/APTRANSCO/Vidut Soudha/Hyderabad,
32. Estate Officer/APTRANSCO/Vidut Soudha/Hyderabad,
33. Central Record Section - 2 copies.

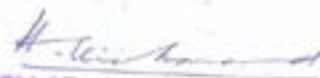
H. Vishwanath

Chief Engineer/Comm & RAO
TRANSCO, Vidut Soudha,
Hyderabad - 500 062.

Abstract Estimate -1: Evaluation of Wind Power in Karlepa, Anantapur and Kurnool districts of Andhra Pradesh

ABSTRACT ESTIMATE

Sl. No.	Description of Line/ Substation	Length/ Capacity		Estimated Cost
A. 400KV Kondapalle Substation:				
1	400/220kV Substation at Kondapalle - 3 Nos. 31A MVA, PSIs	2x315	MVA	11,420.80
2	80 MVAR Sub Reactor	1	No.	985.00
3	400kV DC Quad Merse Line from 220kV SS to 400kV Uvavakonda SS	130	km	31,200.00
4	400kV DC Quad Merse Line from 220kV SS to proposed 350kV IV Mahalingam SS	40	km	9,800.00
5	220kV DC Merse Line from 400kV Kondapalle SS to 220kV Uvavakonda SS	90	km	3,482.00
6	220/132 kV Substation at Uvavakonda	2x100	MVA	1,301.42
7	220kV DC Twin Merse Line from 400kV Kondapalle SS to 220kV Pamparasa Tanda SS	90	km	10,701.00
8	220/132 kV Substation at Pamparasa Tanda	2x100	MVA	2,708.14
	Sub-Total (A):			71,483.47
B. 400KV Kondapalle Substation:				
1	400/220kV Substation at Kondapalle	4x315	MVA	11,856.80
2	400kV Quad Ray Extension at Kurnool 400kV Substation	2	MVA	1,280.76
3	80 MVAR Sub Reactor	1	No.	985.00
4	400kV DC Quad Merse Line from 400kV Kondapalle to 400kV Kurnool SS	125	km	30,000.00
5	400kV DC Quad Merse Line from 400kV Kondapalle to 400kV Uvavakonda SS	110.00	km	26,400.00
6	220kV DC Merse Line from 400kV Kondapalle SS to 220kV Thumakapally SS	10.00	km	608.40
7	220/132 kV Substation at Thumakapally	2x100	MVA	2,388.68
8	220kV DC Merse Line from 400kV Kondapalle SS to 220kV Belamchinta	35	km	5,447.32
9	220/132 kV Substation at Belamchinta	2x100	MVA	2,090.58
10	220kV DC Merse Line from 400kV Kondapalle SS to 220kV Chakrapur SS	80	km	5,100.40
11	220/132 kV Substation at Chakrapur	2x100	MVA	1,800.20
12	220kV DC Merse Line from 400kV Kondapalle SS to 220kV Pamparasa Tanda SS	85	km	5,338.40
13	220/132 kV Substation at Pamparasa Tanda	2x100	MVA	1,306.28
14	220kV DC Merse Line from 400kV Kondapalle SS to 220kV Jammalamadugu SS	30	km	2,295.00
15	220/132 kV Substation at Jammalamadugu	2x100	MVA	2,418.87
	Sub-Total (B):			101,777.61
C. 400KV Uvavakonda Substation:				
1	400/220kV Substation at Uvavakonda	4x315	MVA	11,856.80
2	400kV Quad Ray Extension at Mahalingam 400kV Substation	2	MVA	1,280.76
3	80 MVAR Sub Reactor	1	No.	985.00
4	400kV DC Twin Merse Line from 400kV Uvavakonda SS to 220kV Vajrakur SS	13	km	1,545.78
5	220/132 kV Substation at Vajrakur	1x100	MVA	1,302.16
6	220kV DC Twin Merse Line from 400kV Uvavakonda SS to 220kV Burampudi SS	68	km	8,082.00
7	220/132 kV Substation at Burampudi	1x100	MVA	1,856.16
	Sub-Total (C):			24,429.82


 Chief Engineer/Comm & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 003.

B-220KV Interconnectors (220KV):			
1	220KV DC Moors line from 400KV Hindupur BS to 220KV Hindupur Substation	10	km
2	220KV DC Moors line from 400KV Lakshminagar BS to 220KV Kalyandurg BS	80	km
3	220KV DC Moors line from 400KV Hindupur BS to 220KV Tadipatri BS	30	km
4	220KV Ray Extensions at 220KV Hindupur Substation	2	km
5	220KV Ray Extensions at 220KV Kalyandurg Substation	2	km
6	220KV Ray Extensions at 220KV Tadipatri Substation	2	km
Sub-Total(B):			7,843.79
B-132 KV Interconnectors (132KV):			
1	132 KV DC line from 220/132 KV Penukonda BS to 132/33 KV Penukonda BS	10	km
2	132 KV DC line from 220/132 KV Jammalamadugu BS to 132/33 KV Jammalamadugu BS	10	km
3	132 KV DC line from 220/132KV Penukonda BS to 132/33 KV Penukonda BS	10	km
4	132 KV Ray Extensions at 132/33 KV Penukonda Substation	2	km
5	132 KV Ray Extensions at 132/33 KV Jammalamadugu Substation	2	km
6	132 KV Ray Extensions at 132/33 KV Penukonda Substation	2	km
Sub-Total(C):			1,728.00
F- Communication Equipments:			
30	450KV Works	LR	
30	220KV Works	LR	
30	132KV Works	LR	
Total (A+D+C+E+F):			262,318.84
Basic T & P @ 1%:			7,631.11
Total (A+B+C+D+E+F+G):			269,949.95
Contingencies (5%):			1,349.75
Total including contingencies:			271,299.70
Exc. and other charges @ 10.75%:			29,113.04
Grand Total:			300,412.74
at 80% (P&C in Gross) x			240,330.19
Interest During Construction (5% in Gross):			20,000.00
Total (including IDC) - (P&C in Gross):			260,330.19

H. Uthman
 Chief Engineer/Control & RAC
 TOTRANSCO, Vidyal Souda,
 Hyderabad - 500 062

Abstract Estimate - Phase - I works of Evacuation of Wind Power in Kadapa, Anantapur and Kurnool districts of Andhra Pradesh				
ABSTRACT ESTIMATE				
Sl. No.	Description of Work/ Substation	Estimated Cost (Rs. Lakhs)		
		Length/ No. of days	Estimated Cost	
A-400KV Kanchipuram Substation:				
1	400/220KV Substation at Kanchipuram	14x10	MSA	10,802.50
2	400KV Over Head Extension at Kurnool 400KV Substation	2	km	1,282.70
3	400KV DC Over Head Line from 400KV Kanchipuram to 400KV Kurnool SS	110	km	20,000.00
4	400KV DC Over Head Line from 400KV Kanchipuram to 400KV Urisankunda SS	110.00	km	20,400.00
5	400KV DC Over Head Line from 400KV Kanchipuram SS to 220KV Thimmapet SS	15.00	km	850.00
6	220/132 KV Substation at Thimmapet	2x100	MSA	2,300.00
7	220KV Over Head Line from 400KV Kanchipuram SS to 220KV Jannamandugu SS	30	km	3,100.00
8	220/132 KV Substation at Jannamandugu	2x100	MSA	2,400.00
9	220KV DC Over Head Line from 400KV Kanchipuram SS to 220KV Tatyam SS	30	km	3,090.00
10	220KV Over Head Extension at 220KV Tatyam SS	2	km	201.00
11	132 KV DC Line from 220/132 KV Jannamandugu SS to 132KV VV Jannamandugu SS	10	km	414.70
12	132 KV Over Head Extension at 132KV VV Jannamandugu Substation	2	km	122.00
B-400KV Urisankunda Substation:				
1	400/220KV Substation at Urisankunda	2x10	MSA	8,504.07
2	400KV Over Head Extension at Maricherla 400KV Substation	2	km	1,280.70
3	400KV DC Over Head Line from 400KV Urisankunda SS to 400KV Maricherla SS	100	km	19,000.00
4	220/132 KV Substation at Vayalar	10	km	1,045.70
5	220KV DC Over Head Line from 400KV Urisankunda SS to 220KV Vayalar SS	14.00	km	1,375.00
6	220/132 KV Substation at Banaganapalle	2x100	MSA	2,300.00
7	220KV DC Over Head Line from 400KV Urisankunda SS to 220KV Banaganapalle SS	10.00	km	1,045.70
8	220/132 KV Substation at Banaganapalle	2x100	MSA	2,300.00
9	220KV DC Over Head Extension at 220KV Banaganapalle SS	2	km	201.00
C - Communication Equipment:				
10	400KV Works	1.0		
11	220KV Works	1.0		2542.00
12	Total (A+B+C)			114,315.28
13	Special T & P @ 1% :			1,143.15
14	Total (A+B+C+D)			115,458.43
15	Contingencies (5%) :			5,772.92
16	Total including contingencies :			121,231.35
17	Est. and other charges @ 15.75% :			17,245.34
18	Grand Total :			138,476.69
19	in Day @ 1% in Overhead :			1,374.76
Sd/- Chief Engineer Control & Safety				

H. V. S. S. S.
Chief Engineer/Comm & RAO
TSTRANSQ, Vidyalay Soudha,
Hyderabad - 500 062.



ఆంధ్ర ప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

AZ 384488

Date: 08/02/2015, 12:06 PM

Serial No: 1708

Denomination: 100

Purchased By:
S/IAIK VASEER
S/O SHAIK BASHEER
B/O HYD

For Whom:
S. SRINIVAS
S/O SATYANARAYANA RAO
HYD

Sub Registrar
Ex. Office Stamp Vendor
SRO: S.R.Nagar

To,
The Chief Project Manager
Rural Electrification Corporation Limited
NH-1, NPA Post
Shivaramapally, Hyderabad

Sub: REC's financial assistance; Term Loan of Rs 2010.38 crores (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 Generators in Kadapa, Ananthapur 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 Telangana Limited (TSTRANSCO).

Rural Electrification Corporation Limited (REC) has sanctioned a total Loan of Rs 2010.38 crores pertaining to the Schemes as per Schedule I hereunder 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 etc. 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 ratio of both the States.

A. V. Sankar
Chief Engineer/Genert & PAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 052.

[Signature]
Financial Advisor
Chief Controller of Accounts
(Accounts)
TS TRANSCO, Vidyut Soudha,
Hyderabad - 500 052.

Upon 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.

TSTRANSCO 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 stands 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. Contracts have been awarded by TSTRANSCO for the works falling in TSTRANSCO jurisdiction (as per schedule-II).

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 sanctions 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 Schedule-II.

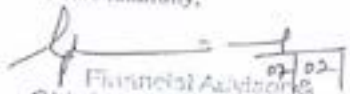
In view of the above, it is requested that the further disbursement under the scheme falling under the geographical location of TSTRANSCO for the works being executed by TSTRANSCO (as per schedule-II) may be disbursed to TSTRANSCO, upon submission of claims, as per the bank details below:

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 Advisor
Chief Controller of Accounts
(Accounts)
TS TRANSCO, Vidya Soudha,
Hyderabad - 500 002.


Chief Executive Officer & RAO
TS TRANSCO, Vidya Soudha,
Hyderabad - 500 002.

Phase 1 works as approved by APERC and now sanctioned by RCO
Abstract of Works proposed

Annexure Schedule - I

S.No.	Particulars	Unit	Quantity	Rate in Rs. Lakhs	Amount in Rs. Crores
A 400KV Jammalamadugu SS					
1	400/220KV SS at Jammalamadugu (2X315MVA) - 2 x 100 MVA	Nos	1	1014513000	101.451
2	400KV Quad Bay extensions at Kurud 400KV SS	Mts	2	79940000	13.989
3	400KV D/C Quad Moose Line to 400/220KV SS at Jammalamadugu - 400KV Busbar SS	km	115	24000000	306.600
4	400KV D/C Quad Moose Line to 400/220KV SS at Jammalamadugu - 400KV Transformer SS	km	110	24000000	264.000
5	220KV D/C Moose Line to 400/220KV SS at Jammalamadugu - 220KV Transformer SS	km	17	6584000	11.073
6	220/132KV SS at Elumathakudi (2X165MVA)	Nos	1	254888000	25.489
7	220KV D/C Moose Line to 220/132KV SS at Elumathakudi - 220KV Transformer SS	km	68	8884000	47.481
8	220/132KV SS at Sethancheru (2X165MVA & 2 x 165MVA)	Nos	1	255481000	25.548
9	220KV D/C Moose Line to 400/220KV SS at Jammalamadugu - 220KV Transformer SS	km	79	4884000	48.838
10	220/132KV SS at Chakrapur (2X165MVA & 2 x 165MVA)	Nos	1	248900000	24.891
11	220KV D/C Moose Line to 400/220KV SS at Jammalamadugu - 220KV Transformer SS	km	75	6984000	52.380
12	220/132KV SS at Panakurthy (2X165MVA)	Nos	1	188320000	18.833
Total					940.738
B 400KV Uraekonda SS					
1	400/220KV SS at Uraekonda (2X315MVA)	Nos	1	1023191000	102.319
2	400KV Quad Bay extensions at Mahabubnagar 400KV SS	Nos	2	37167500	10.434
3	400KV D/C Quad Moose Line to 400/220KV SS at Uraekonda - 400KV Transformer SS	km	180	24000000	438.000
4	220KV D/C Two Moose Line to 400/220KV SS at Uraekonda - 220KV Transformer SS	km	13	11880000	15.867
5	220/132KV SS at Vajrakur (1X165MVA)	Nos	1	121810000	12.182
6	220KV D/C Two Moose Line to 400/220KV SS at Uraekonda - 220KV Transformer SS	km	88	11880000	80.832
7	220/132KV SS at Ramampudi (1X165MVA)	Nos	1	1041010000	10.410
Total					722.048
C 220KV Interconnectivity					
1	220KV D/C Moose Line from 400KV Uraekonda SS to 220KV Kalyandurg SS	km	58	6984000	34.822
2	220KV D/C Moose Line from 400KV Jammalamadugu SS to 220KV Tadipatri SS	km	40	6984000	27.936
3	330/220KV D/C at both the ends of 220KV D/C Moose Line from 400KV Uraekonda SS to 220KV Kalyandurg SS at 220KV Ramampudi SS	km	10	13880000	13.968
4	220KV Bay Extension at 220KV Kalyandurg SS	Nos	2	11040000	2.219
5	220KV Bay Extension at 220KV Tadipatri SS	Nos	2	11990000	2.219
Total					81.263
D 132KV Interconnectivity					
1	132KV D/C Line from 220/132KV Jammalamadugu SS to 132/66KV Jammalamadugu SS	km	12	4417000	5.300
2	132KV Bay Extension at 132/132KV Jammalamadugu SS	Nos	2	5540000	1.108
Total					6.408
E Communication Equipment (400/220KV works)		Lot			5.478
F Total (A+B+C+D+E)					25.437
G Source T&P 1%					1786.678
H Total (F+G)					17.688
I Contingencies 2%					1774.941
J Total including Cont					83.221
K Capital Works & Others (15.75%)					1827.356
L Total (J+K) (incl 400KV SS)					1910.421
M Project SS					2077.538
N Net Cost estimate (excl of GST) (including Land cost and Interest etc)					2104.708
O Less: amount now sanctioned (50% of project cost including GST)					2104.708
					0.000

Chief Engineer/Deputy S. RAO
TST&NCO, Vajrakur Soudha,
Hyderabad - 500 082.

Schedule - II

Tentative break up of cost of works of wind power evacuation project (code no 8335) among Telangana and Andhra Pradesh (in Rs crores)			
Description	Cost of works for evacuation of wind power (as per sanction)	Cost of Works now proposed to be executed by TSTRANSCO	Cost of Works now proposed to be executed by APTRANSCO
Project cost excluding IDC	2023.70	203.96	1819.74
IDC	210.06	21.17	188.89
Project cost 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 no 8335)

Sl No	Name of the work	Sanctioned cost (Rs Crores)	Contract Value (Rs Crores)
	400 KV Urvakonda SS		
1	400 KV Quad DC Line from Vellore to Tungabhadra river crossing (73.65 KM) (a portion of 400 KV Quad DC Line from 400 KV Urvakonda SS to 400 KV Mahabubnagar SS pertaining to Telangana Region)	202.83	110.60
2	Supply of Moose ACSR conductor required for 400 KV Quad DC Line from Vellore to Tungabhadra river crossing (73.65 KM)		31.06
3	2 Nos Quad 400 KV Bays at 400/220 KV Vellore SS (excluding cost of Switchgear equipment)	22.30	13.33
4	Supply of switchgear require for 2 nos Quad 400 KV Bays at 400/220 KV Vellore SS		13.00
	TOTAL:	225.13	188.79

H. Vishwanath
 Chief Engineer, District & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 052.



TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED
(a wholly owned State Govt. Company)
Vidyut Soudha :: Hyderabad.

Signature - I

**EXTRACT FROM THE MINUTES OF THE 99TH 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 proposal 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 lakhs one thousand seven hundred and twenty only), as detailed hereunder, and also the expenditure relating to preparation and filing 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.)
INC - 7 (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 //



A. J. R. S. S. S. S.
COMPANY SECRETARY
APTRANSCO, HYDERABAD,

A. V. S. S. S. S.
Chief Engineer/Control & RAC
TSTU/TRANSCO, Vidyut Soudha,
Hyderabad - 500 062.

ADWELL 1002



GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS
Registrar of Companies, Hyderabad
2nd Floor, CPWD Building, Kendriya Sadan, Sultan Bazar, Kof


Certificate of Incorporation

[Pursuant to sub-section (2) of section 7 of the Companies Act, 2013 and rule 8 of the Companies (Incorporation) Rules, 2014]

I hereby certify that TRANSMISSION CORPORATION OF TELANGANA LIMITED is this day incorporated Twenty Ninth day of May Two Thousand Fourteen under the Companies Act, 2013 and that the company is kind: By shares

The CIN of the company is U40102AP2014SGC094263

Given under my hand at Hyderabad this Twenty Ninth day of May Two Thousand Fourteen


SHASHI RAJ DATTA
 Deputy Registrar of Companies
 Andhra Pradesh

Mailing Address as per record available in Registrar of Companies office
 TRANSMISSION CORPORATION OF TELANGANA LIMITED
 6-3-572, VIDYUT SOUGHIA, KHARTAGAD,
 HYDERABAD - 500062,
 Andhra Pradesh, INDIA

A. V. S. S. S.
 Chief Engineer/Cummt & RAO
 TSP&NSCO, Vidyut Soughia,
 Hyderabad - 500 062.

TRANSMISSION CORPORATION OF A.P. LTD.
VIDYUT SOUDHA, HYDERABAD-52.

From
The Financial Adviser &
Chief Controller of Accounts (A/c's)
APTRANSCO,
Vidyut Soudha,
HYDERABAD.

To
The Chief Project Manager,
M/s REC Limited,
CORE Campus, NH-7,
NPA Road,
Sivarampally,
HYDERABAD.

LB NO FA&CCA/Accounts/SAO/L.B&RV 17 /14 DT. 13.1.2015

Sir,

Sub: Erection of Transmission net-work for evacuation of power from 3150MW Wind Generators in Kadapa, Anantapur & Kurnool 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 loan documents on 27/8/2014.

It is to inform that M/s REC has sanctioned a term loan of Rs. 2010.38 crores towards erection of Transmission Net work for evacuation of power from 3150 MW Wind Generators in Kadapa, Anantapur & Kurnool in A.P. and the documents were also executed on 27/8/2014.

Further it is to inform that the following works are pertaining to Telangana region (400KV Uravakonda SS to Mahabubnagar):

S.NO	Name of the work	Contract Value (Rs. in crores)
1	400KV Quad DC line from Vellore to Tungabhadra River Crossing (73.62 km); (A portion of 400 KV Quad DC line from 400 KV Uravakonda SS to 400 KV Mahabubnagar SS pertaining to Telangana region (excluding cost of conductor)	110.60
2	Supply of Moose ACSR Conductor required for 400 KV Quad DC line from Vellore to Tungabhadra River Crossing (73.65 KM)	51.00
3	2 Nos. Quad 400 KV Bays at 400/220 KV Vellore SS (Excluding cost of Switchgear equipment)	13.53
4	Supply of Switchgear require for 2 Nos. Quad 400 KV Bays at 400/220 KV Vellore SS	13.00
	Total	188.13

In view of the above, it is requested to release loan/reimbursement to TSTRANSCO to the extent of Rs. 188.37 crores (i.e. 90% of contract value of Rs. 188.19 crores) based on the physical progress report furnished by CE/400 KV Constn./TSTRANSCO against the above works from time to time.

Yours faithfully,

FINANCIAL ADVISER &
CHIEF CONTROLLER OF ACCOUNTS
(ACCOUNTS)

Copy to FA&CCA(A/c's) TSTRANSCO/Vidyut Soudha, Hyderabad

Chief Engineer-Central & PAC
TSTRANSCO, Vidyut Soudha,
Hyderabad - 500 012.

CENTRAL ELECTRICITY REGULATORY COMMISSION

NEW DELHI

Petition No.2/TT/2019

Coram:

Shri P.K. Pujari, Chairperson

Dr. M. K. Iyer, Member

Shri I. S. Jha, Member

Date of Order: ^{13th} 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,

Khairatabad, Hyderabad,

Telangana-500082

... Petitioner

Versus

1. Transmission Corporation of Andhra Pradesh Limited (APTRANSCO),

Vidyut Soudha, Gunadala, Eluru Road, Vijaywada,

Andhra Pradesh-520004

2. Chief Engineer, Commercial, TSPCC, Room No. 455,

A-Block, 4th Floor, Vidyut Soudha, Khairathabad,

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13/1/20
 Chief Engineer/Comm & RAC
 TSTRANSCO, Vidyut Soudha,
 Hyderabad - 500 082.

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 lines/system. In the said petition, TCTL had raised several issues and



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submitted that the present State of Andhra Pradesh has not invested any 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.
- 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."

3. 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

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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.

8. 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."

5. 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.

6. The Petitioner has made the following prayer:

- 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
- 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:

Sl. No.	Name of Line	Connecting States
1	400 KV VTPS - Malkaram Line	Telangana And Andhra Pradesh
2	400 KV VTPS - Suryapet Line	
3	400 KV Srisaillam - Sattenapalli Ckt I	
4	400 KV Srisaillam - Sattenapalli Ckt II	
5	400 KV Srisaillam - Kurnool (SC) feeder	
6	400 KV Kalpaka - Khammam - I feeder	
7	400 KV Kalpaka - Khammam - II feeder	
8	400 KV Uravakonda - Veltoor- I feeder	
9	400 KV Uravakonda - Veltoor- II feeder	
10	220 KV Nunna - KTPS Line	
	220 KV Tallapalli - Nagarjunasagar - I feeder	



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Sl. 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 Brahmankotkur - Wanaparthy line (LIS)	
18	220 KV Srisailem - Dindi - I feeder	
19	220 KV Srisailem - Dindi - II feeder	
20	220 KV N'Sagar Receiving Station - Srisailem SC Line	
21	220 KV LSR - KTPS - I feeder	
22	220 KV LSR - KTPS - II feeder	
23	132 KV Nagarjunasagar - RCPH feeder	

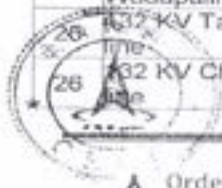
8. The Petitioner has submitted the following to substantiate its claim:-
- The Petitioner has adopted the same YTC/Ckt-KM for each type of conductor configuration, as claimed by APTRANSCO in their Petition, for determination of YTC for ISTS Lines/System owned by TSTRANSCO taking into consideration of the following reasons.
 - 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
 - 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.
 - 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	MOOSE				
3	400 KV Srisaillam - Sattenapalli Ckt I	D/C ACSR TWIN	1.20	10.44	12.53	12.2.2014
4	400 KV Srisaillam - Sattenapalli Ckt II	MOOSE				
5	400 KV Srisaillam- Kurnool (SC) feeder	S/C 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	2528.48	10.5.2002
7	400 KV Kalpaka —Asupaka (Khammam — II) feeder	MOOSE				
8	400 KV Uravakonda - Veltoor - I feeder	D/C ACSR	147.20	18.05	2656.96	17.11.2016
9	400 KV Uravakonda - Veltoor - II feeder	Quad Moose				18.11.2016
10	220 KV Nunn@ - KTPS Line	S/C ACSR DEER	64.45	4.89	315.16	21.1.1992
11	220 KV Tallapalli - Nagarjunasagar - I feeder	D/C ACSR TWIN	4.20	4.14	17.39	5.8.1985
12	220 KV Tallapalli - Nagarjunasagar - II feeder	MOOSE				
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 Chillakallu - 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	29.10.2009
18	220 KV Srisaillam - Dindi - I feeder	D/C ACSR	160.00	4.14	662.40	12.9.1982
19	220 KV Srisaillam - Dindi - II feeder	ZEBRA				
20	220 KV N'Sagar Receiving Station - Srisaillam SC Line	S/C ACSR DEER	4.00	4.89	19.56	7.2.1989
21	220 KV LSR - KTPS - I feeder	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	396.09	25.2.1983
24	132 KV Piduguralla - Wadapalli	S/C ACSR PANTHER	2.36	3.95	30.42	22.2.2014
25	132 KV Tangeda - Wadapalli	S/C ACSR PANTHER	2.36	3.95	9.32	26.8.2010
26	132 KV Chillakallu - Kodada	S/C ACSR PANTHER	9.84	3.95	9.32	10.6.2004



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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 PANTHER	7.00	2.91	20.37	20.1.1987
34	132 KV Chillakallu - Bonakallu - II feeder	D/C ACSR PANTHER				
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 PANTHER	5.90	2.91	17.11	9.6.1982
38	132 KV K. Kota - Aswaraopet - II feeder	D/C ACSR PANTHER				

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 petitioner to submit whether there are other beneficiaries to the instant transmission lines and if so, implead them as respondents and file revised "Memo of Parties" and



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 Telangana 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:

- a. 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.
- b. 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:

- a. The SRPC certification vide letter dated 20.06.2019 regarding the 38 No.s ISTS lines had already been placed on records.
- b. 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 Srisaillam-Sattenpalli Ckt I	165.60	0.40
4	400 KV Srisaillam-Sattenpalli Ckt II	165.60	0.40
8	400 Kv Uravakonda-Velloor Ckt-I	196.96	73.50
9	400 Kv Uravakonda-Velloor Ckt-II	196.96	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-Srisaillam- I & II feeders were formed by making LILO of both circuits of 400 kV Srisaillam-Nunna-I & II lines which were originally



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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 Certificate. 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.

14. 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 and Asset-2	400 KV VTPS -Malkaram line	D/C ACSR TWIN MOOSE	378.64	189.32	02.04.2013
	400 KV VTPS - Suryapet line				
Asset-3 and Asset-4	400 KV Srisaillam - Sattenapalli Ckt I	D/C ACSR TWIN MOOSE	0.8	0.4	23.10.2010
	400 KV Srisaillam - Sattenapalli Ckt II				
Asset-5	400 KV Srisaillam- 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	D/C ACSR TWIN MOOSE	242	121	10.05.2002
	400 KV Kalpaka - Khammam - II feeder				
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	D/C ACSR TWIN MOOSE	4.2	2.1	05.08.1985
	220 KV Tallapalli - Nagarjunasagar - II feeder				
Asset-13	220 KV Tallapalli - Nagarjunasagar - III feeder	S/C ACSR ZEBRA	4	4	27.01.1985
Asset-14	220 KV Tallapalli - Chalakurthy feeder	S/C ACSR ZEBRA	27.4	27.4	21.07.2007

Asset	Name of the line	Configuration 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 - Narketpalli - I feeder	D/C ACSR MOOSE	216	108	10.03.2010
	220 KV Chillakallu - Narketpalli - II feeder				
Asset-17	220 KV Brahmankotkur - Wanaparthy line (LIS)	S/C ACSR MOOSE	78.79	78.79	29.10.2009
Asset-18 and Asset-19	220 KV Srisailem - Dindi - I feeder	D/C ACSR ZEBRA	160	80	12.09.1982
	220 KV Srisailem - Dindi - II feeder				
Asset-20	220 KV N'Sagar Receiving Station - Srisailem 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 Piduguralla - 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/C ACSR 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	D/C ACSR PANTHER	7.00	3.50	20.01.1987
	132 KV Chillakallu - Bonakallu - II feeder				
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	D/C ACSR PANTHER	5.9	2.95	09.06.1982
	132 KV K. Kota - Aswaraopet - II feeder				

Note: Wherever ckt-km of D/C line has been given by the Petitioner, half of the same is considered for KM of line length.



15. 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 lines were determined on the basis of methodology already adopted by the

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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 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 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



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:-

- (i) 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."

16. 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-35, 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

17. The transmission charges allowed for the instant assets are summarized in the following tables.

Particulars	Asset-1 and Asset-2	Asset-3 and Asset-4	Asset-5
	2016-17	2016-17	2016-17
Depreciation	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	Asset-10	Asset-11 and Asset-12
	2016-17	2016-17	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

Particulars	Asset-13	Asset-14	Asset-15 and Asset-16
	2016-17	2016-17	2016-17
Depreciation	0.00	24.50	157.45
Interest on Loan	0.00	8.40	76.72
Return on equity	0.00	21.58	138.66
Interest on Working Capital	0.10	1.91	13.09
O & M Expenses	1.73	11.84	81.54
Total	1.82	68.22	467.45



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	Asset-25	Asset-26
	2016-17	2016-17	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	Asset-28	Asset-29
	2016-17	2016-17	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	Asset-31	Asset-32
	2016-17	2016-17	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 2016-17	Asset-35 2016-17	Asset-36 2016-17	Asset-37 and Asset-38 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.

19. This order disposes of Petition No. 2/TT/2019.

Sd
(I.S. Jha)
Member

Sd
(Dr. M.K. Iyer)
Member

Sd
(P.K. Pujari)
Chairman

CERTIFIED TRUE COPY
[Signature]
Authorised Signatory
C.E.R.C.

[Signature]
Chief Engineer/Control & R&D
TSTRANSCO, Varad Souda,
Hydrabad - 500 092.





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: Hyderabad.
Date: 07/07/21

[Handwritten signature]

[Handwritten signature]
Signature of the Party
Chief Engineer/Central A.P.C.
TSTTAT-2021, 11th Floor, Boudha,
Madhyam-1, 500 082

Executed in my presence.

"Accepted"

*Signature with date
(Name and Designation)

*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

[Handwritten signature]

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Form-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	
8. Application fee for licence (a) Trading licence (b) Transmission licence (c) Period for which paid (d) Amount of fee paid	
9. Fees paid for Miscellaneous Application	
10. Fees paid for Interlocutory Application	
11. 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	
14. 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. (b) Date of remittance (c) Amount remitted	(i) SBINR1252021052726039275 (ii) SBINR52021052726044278 (iii) SBINR52021052726045130 (iv) SBINR52021052726046130 (v) SBINR5202105276043910 26.05.2021 (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