

**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

Petition No. 98/GT/2020

Coram:

Shri P. K. Pujari, Chairperson

Shri I. S. Jha, Member

Shri Pravas Kumar Singh, Member

Date of Order: 10th May, 2022

In the matter of:

Corrigendum to the Order dated 2.5.2022 in Petition No. 98/GT/2020

In the matter of

Petition for revision of tariff of Tehri Hydroelectric Power Project, Stage-I (1000 MW) for the period from 1.4.2014 to 31.3.2019 after truing-up

And

In the matter of

THDC India Limited,
Bhagirath Puram,
Rishikesh-249001, Uttarakhand

.... Petitioner

Vs

1. Punjab State Power Corporation Limited,
The Mall,
Patiala – 147001 (Punjab)

2. Haryana Power Utilities,
Shakti Bhawan, Sector 6,
Panchkula – 134 109 (Haryana)

3. Uttar Pradesh Power Corporation Limited,
Shakti Bhawan, 14 Ashok Marg,
Lucknow – 226001 (UP)

4. BSES Rajdhani Power Limited,
BSES Bhawan, Nehru Place,
New Delhi-110019

5. BSES Yamuna Power Limited,
3rd Floor, Shakti Kiran Building, Karkardooma,
New Delhi-110092



6. Tata Power Delhi Distribution Limited,
33 KV Grid Sub-Station Building, Hudson Lane, Kingsway Camp,
Delhi-110009

7. Chandigarh Administration,
1st Floor, UT Secretariat, Sector 9-D,
Chandigarh-160009

8. Uttarakhand Power Corporation Limited,
Urja Bhawan, Kanwali Road,
Dehradun-248001 (UK)

9. Himachal Pradesh State Electricity Board Limited,
Vidyut Bhawan, Shimla-171004

10. Jaipur Vidyut Vitran Nigam Limited,
Vidyut Bhawan, Janpath, Jyotinagar,
Jaipur-302005 (Rajasthan)

11. Ajmer Vidyut Vitran Nigam Limited,
Old Powerhouse, Hatthi Bhatta, Jaipur road,
Ajmer-305001 (Rajasthan)

12. Jodhpur Vidyut Vitran Nigam Limited,
New Powerhouse, Industrial Area,
Jodhpur-342003 (Rajasthan)

13. Power Development Department,
Government of J&K, Civil Secretariat,
Jammu -180001 (J&K)

.... Respondents

CORRIGENDUM

The Commission vide its order dated 2.5.2022 in Petition No. 98/GT/2020 had determined the tariff of Tehri Hydroelectric Power Project, Stage-I (1000 MW) for the 2014-19 tariff period as under:

	<i>(Rs. in lakh)</i>				
	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation	34927.32	35114.61	35314.68	35537.86	35674.66
Interest on Loan	24555.99	20663.67	16776.80	10332.45	6899.14
Return on Equity	53355.92	53614.07	53614.07	53614.07	53754.64
Interest on Working Capital	3776.25	3775.19	3773.81	3719.63	3741.92
O&M Expenses	21340.78	22757.81	24268.93	25880.39	27598.84
Total	137956.27	135925.34	133748.29	129084.40	127669.20

2. It is observed that certain inadvertent clerical/ arithmetical errors have crept in the



computation of depreciation in the table under paragraph 40 of the said order dated 2.5.2022 in Petition No. 98/GT/2020.

3. Therefore, in terms of the Regulation 111 read with Regulation 103A of the CERC (Conduct of Business) Regulations 1999, the inadvertent clerical/ arithmetical errors in the computation of depreciation in the table under paragraph 40 of the order dated 2.5.2022 is corrected, as under:

	<i>(Rs. in lakh)</i>				
	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Gross block (A)	705372.64	708741.89	712806.14	716361.33	721586.93
Net Additional capital expenditure during 2014-19 (B)	3369.25	4064.25	3555.19	5225.59	390.89
Closing gross block (C)=(A+B)	708741.89	712806.14	716361.33	721586.93	721977.82
Average gross block (D)=[(A+C)/2]	707057.27	710774.02	714583.74	718974.13	721782.37
Value of Freehold Land	1315.04	1315.04	1315.04	1315.04	1315.04
Depreciable Value (E)=[(D – Freehold land)*90%]	635168.01	638513.09	641941.83	645893.19	648420.61
Remaining Depreciable Value at the beginning of the year (F)=(E-Cumulative Depreciation at 'L' at the end of previous year)	421033.31	388707.93	355036.58	322014.63	287160.29
Rate of Depreciation (G) = [(I)/(D)*100]	5.246%	5.236%	5.225%	5.214%	5.206%
Balance useful Life (H)	28.27	27.27	26.27	25.27	24.27
Depreciation (I)= (D*G)	37094.91	37214.35	37339.57	37484.21	37578.38
Cumulative Depreciation at the end of the year (J)=(I+ Cum Dep at 'L' at the end of previous year)	251229.61	287019.50	324244.83	361362.76	398838.70
Less: Depreciation adjustment on account of de-capitalization (K)	1424.45	114.25	366.27	102.44	5.79
Cumulative Depreciation at the end of the year* (L)	249805.16	286905.26	323878.56	361260.32	398832.92

*Cumulative depreciation at the end of 2013-14 is Rs.214134.70 lakh.

4. Consequent upon rectification of the depreciation amount, as above, the figures corresponding to Interest on Loan (in paragraph 38), Working capital for Receivables (in paragraph 45), Interest on working capital (in paragraph 50), and Annual Fixed Charges (in paragraph 51), the Summary (in paragraph 57) and the Annexure-I in the



said order dated 2.5.2022 are also corrected and modified as under:

Interest on Loan (Paragraph 38)

(Rs. in lakh)

	2014-15	2015-16	2016-17	2017-18	2018-19
Gross opening loan (A)	449787.64	453156.89	457221.14	460776.33	466001.93
Cumulative repayment of loan upto previous year (B)	235562.63	271233.09	308333.19	345306.49	382688.25
Net Loan Opening (C)=(A)-(B)	214225.01	181923.81	148887.96	115469.85	83313.68
Repayment during the year (D)	37094.91	37214.35	37339.57	37484.21	37578.38
Cumulative repayment adjustment on a/c of de-capitalization (E)	1424.45	114.25	366.27	102.44	5.79
Net Repayment (F)=(D)-(E)	35670.46	37100.10	36973.30	37381.76	37572.60
Addition due to additional capital expenditure (G)	3369.25	4064.25	3555.19	5225.59	390.89
Net Loan Closing (H)= (C+G-F)	181923.81	148887.96	115469.85	83313.68	46131.97
Average Loan(I)=[(C+H)/2]	198074.41	165405.88	132178.90	99391.76	64722.83
Weighted Average Rate of Interest of loan (J)	12.33%	12.26%	12.21%	9.69%	9.34%
Interest on Loan (K)=(I*J)	24423.09	20270.90	16134.27	9630.35	6042.95

Working capital for Receivables (Paragraph 45)

(Rs. in lakh)

2014-15	2015-16	2016-17	2017-18	2018-19
23339.63	22945.27	22527.08	21726.21	21456.81

Interest on Working Capital (Paragraph 50)

(Rs. in lakh)

	2014-15	2015-16	2016-17	2017-18	2018-19
O & M expenses	1778.40	1896.48	2022.41	2156.70	2299.90
Maintenance Spares	3201.12	3413.67	3640.34	3882.06	4139.83
Receivables	23339.63	22945.27	22527.08	21726.21	21456.81
Total Working Capital	28319.15	28255.42	28189.83	27764.97	27896.54
Rate of Interest	13.50%	13.50%	13.50%	13.50%	13.50%
Total Interest on Working capital	3823.08	3814.48	3805.63	3748.27	3766.03

Annual Fixed Charges (Paragraph 51)

(Rs. in lakh)

	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	37094.91	37214.35	37339.57	37484.21	37578.38
Interest on Loan	24423.09	20270.90	16134.27	9630.35	6042.95
Return on Equity	53355.92	53614.07	53614.07	53614.07	53754.64
Interest on Working Capital	3823.08	3814.48	3805.63	3748.27	3766.03
O&M Expenses	21340.78	22757.81	24268.93	25880.39	27598.84
Total annual fixed charges	140037.79	137671.61	135162.47	130357.29	128740.84



Summary (Paragraph 57)

	<i>(Rs. in lakh)</i>				
	2014-15	2015-16	2016-17	2017-18	2018-19
Annual fixed charges claimed	139847.81	137834.61	135189.00	130444.64	128800.43
Annual fixed charges allowed	140037.79	137671.61	135162.47	130357.29	128740.84

5. The Design Energy of 2796.57 Mus, approved in the table in paragraph 56 of the order dated 2.5.2022, shall be read as 2797 MUs.
6. Annexure-I is corrected and the revised Annexure-I is enclosed to this order
7. Except for the above, all other terms contained in order dated 2.5.2022 in Petition No.98/GT/2020 remain unchanged.

Sd/-
(Pravas Kumar Singh)
Member

Sd/-
(I.S. Jha)
Member

Sd/-
(P.K. Pujari)
Chairperson



Annexure I

Weighted Average Rate of Depreciation for the 2014-19 tariff period

Rs. in lakh

Sl. no.	Name of assets	2014-15			2015-16		2016-17		2017-18		2018-19	
		Depreciation Rate	Gross Block as on 01.04.2014	Depreciation Amount	Gross Block as on 01.04.2015	Depreciation Amount	Gross Block as on 01.04.2016	Depreciation Amount	Gross Block as on 01.04.2017	Depreciation Amount	Gross Block as on 01.04.2018	Depreciation Amount
1	LAND											
(A)	Free Hold	0.00%	1,315.04	-	1,315.04	-	1,315.04	-	1,315.04	-	1,315.04	-
(B)	Lease Hold	3.34%	-	-	-	-	-	-	-	-	-	-
2	BUILDING											
(A)	RESIDENTIAL BUILDING	3.34%	5,018.71	167.62	5,019.08	167.64	4,997.19	166.91	4,997.19	166.91	4,997.19	166.91
(B)	NON RESIDENTIAL BUILDING	3.34%	3,267.23	112.11	3,268.22	112.27	3,271.77	112.39	3,308.20	113.61	4,663.31	158.87
(C)	Temporary Buildings (Other than Temporary Structure)	3.34%	392.26	13.10	397.40	13.27	600.20	20.05	600.20	20.05	600.20	20.05
3	ROAD & BRIDGES	3.34%	1,846.41	61.67	1,846.41	61.67	2,001.77	66.86	2,001.77	66.86	2,123.48	70.92
4	CONSTRUCTION PLANT AND MACHINERY	5.28%	1,012.41	53.46	1,027.10	54.23	1,027.10	54.23	1,027.10	54.23	1,027.10	54.23
5	GENERATING PLANT AND MACHINERY											
(A)	MAIN GENERATING PLANT AND MACHINERY	5.28%	169,574.69	8,953.54	170,970.66	9,027.25	170,994.42	9,028.51	171,137.01	9,036.03	171,428.90	9,051.45
(B)	SWITCH GEAR INCLUDING CABLE CONNECTIONS	5.28%	1,742.30	91.99	1,742.30	91.99	1,742.30	91.99	1,770.05	93.46	1,731.15	91.40
6	HYDRAULIC WORKS											
(A)	DAM BARRAGE & SPILLWAYS	5.28%	396,736.92	20,947.71	392,883.95	20,744.27	392,662.90	20,732.60	392,662.90	20,732.60	392,651.24	20,731.99
(B)	UNCLASSIFIED LAND	3.34%	144,717.74	4,833.57	148,537.27	4,961.14	152,605.01	5,097.01	156,175.44	5,216.26	160,491.20	5,360.41
(C)	Less: - IRRIGATION COMPONENT	3.34%	-144,133.80	-4,814.07	144,133.80	-4,814.07	-144,133.80	-4,814.07	144,133.80	-4,814.07	144,133.80	-4,814.07
(D)	TUNNELS, SURGE TANKS, PENSTOCKS & OTHER HYDRAULIC WORKS EXCL. PSP ESSENTIAL WORKS	5.28%	116,193.08	6,134.99	116,946.88	6,174.80	116,973.18	6,176.18	116,973.18	6,176.18	116,975.06	6,176.28
7	SELF PROPELLED VEHICLES	9.50%	1,046.48	99.42	1,153.88	109.62	1,146.56	108.92	1,169.51	111.10	1,201.73	114.16
8	FURNITURE AND FIXTURE	6.33%	501.34	31.74	501.34	31.74	501.34	31.74	501.09	31.72	501.24	31.73
9	WATER SUPPLY, DRAINAGE AND SEWERAGE	5.28%	665.07	35.12	705.63	37.26	724.57	38.26	740.95	39.12	740.95	39.12
10	ASSETS NOT OWNED BY THE COMPANY	5.28%	2,323.83	122.70	2,323.83	122.70	2,323.83	122.70	2,323.83	122.70	2,323.83	122.70
11	MISCELLANEOUS ASSETS / EQUIPMENTS	6.33%	3,167.48	200.50	3,355.04	212.37	3,374.19	213.59	3,597.04	227.69	3,801.45	240.63
12	SUBSTATION EQUIPMENT	5.28%	644.06	34.01	644.06	34.01	634.85	33.52	651.48	34.40	651.48	34.40
13	INTERNAL DISTRIBUTION LINES	5.28%	210.33	11.11	210.33	11.11	210.33	11.11	242.70	12.81	242.70	12.81
	Total		706,330.95	37,090.28	708,807.78	37,153.26	713,065.91	37,292.48	717,154.05	37,441.67	723,426.62	37,663.99
	Weighted Average Rate of Depreciation			5.246%		5.236%		5.225%		5.214%		5.206%

