



Your ref:

My ref: DGM (CS & RA) TRF/BST-Vol.II

Date: May 15, 2023

Director General  
Public Utilities Commission of Sri Lanka  
6<sup>th</sup> Floor, BOC Merchant Tower  
No.28, St, Michael's Road,  
Colombo 3.

### **Bulk Supply Tariff Filing for the Period 1<sup>st</sup> July 2023 to 31<sup>st</sup> December 2023**

This has reference to the following.

- My even number letter dated 2023-01-16 regarding above subject.
- Letter no. PUC/E/Tariff/01 dated 2023-03-30 and 2023-04-26 of the Chairman, PUCSL addressed to the Chairman, CEB with a copy to GM, CEB regarding Tariff Revision 2023.

We are herewith forwarding you the BST submission corresponding to the second six-month interval of 2023 containing the following attachments as received from the Transmission Licensee. The Tariff has been prepared as per approved Tariff Methodology and based on the (MS EXCEL) BST templates provided by the Commission.

1. Annex I - BST for 1<sup>st</sup> July 2023 to 31<sup>st</sup> December 2023.
2. Annex II - Energy Dispatch Forecast 1<sup>st</sup> July 2023 to 31<sup>st</sup> December 2023
3. Annex III - Generation Capacity payment Schedule.
4. Annex IV - Generation Energy Cost schedule.
5. Annex V - Transmission and BS&OB capacity costs.
6. Annex VI- Term Loan schedule.

We wish to bring to your attention that the attached Bulk Supply Tariff submission is based on forecasts made as per approved Tariff Methodology and is intended only for the purpose of calculating Bulk Supply Tariff and other associated tariffs and adjustments as required thereunder.

Yours faithfully  
CEYLON ELECTRICITY BOARD

  
Eng. (Mrs.) KVSM Kudaligama  
**Deputy General Manager**  
**(Corporate Strategy & Regulatory Affairs)**

Copy to: AGM (Transmission - NWO)- fi pl.

**Bulk Supply Tariff****July Dec 2023**

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**Capacity Charge**

Month	Unit	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
<b>Capacity Charge</b>							
Generation capacity	SLR/MW	2,502,135.30	2,620,458.45	2,710,504.14	2,712,570.26	2,639,381.23	2,700,553.27
Transmission	SLR/MW	730,449.17	764,991.29	791,871.19	784,519.13	773,060.14	782,267.07
Bulk Supply Service	SLR/MW	1,617,918.01	1,694,427.53	1,753,965.51	1,737,680.97	1,712,299.74	1,732,692.74
<b>BST (C)</b>	<b>SLR/MW</b>	<b>4,850,502.48</b>	<b>5,079,877.26</b>	<b>5,256,340.85</b>	<b>5,234,770.36</b>	<b>5,124,741.11</b>	<b>5,215,513.09</b>

<b>BST (C)</b>		
<b>6-Month Weighed average</b>	<b>SLR/MW</b>	<b>5,123,250.08</b>

**Energy Charge**

Month	Unit	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
<b>Block 1</b>							
Transmission Loss Factor B1	%	3.51%	3.51%	3.51%	3.51%	3.51%	3.51%
Generation energy Cost B1	SLR/kWh	27.45	26.96	25.30	19.13	19.78	20.94
<b>BST (E1)</b>	<b>SLR/kWh</b>	<b>28.41</b>	<b>27.91</b>	<b>26.19</b>	<b>19.80</b>	<b>20.47</b>	<b>21.67</b>
<b>Block 2</b>							
Transmission Loss Factor B2	%	4.49%	4.49%	4.49%	4.49%	4.49%	4.49%
Generation energy Cost B2	SLR/kWh	35.68	35.05	32.90	24.87	25.71	27.22
<b>BST (E2)</b>	<b>SLR/kWh</b>	<b>37.29</b>	<b>36.62</b>	<b>34.37</b>	<b>25.99</b>	<b>26.87</b>	<b>28.44</b>
<b>Block 3</b>							
Transmission Loss Factor B3	%	2.49%	2.49%	2.49%	2.49%	2.49%	2.49%
Generation energy Cost B3	SLR/kWh	16.47	16.18	15.18	11.48	11.87	12.56
<b>BST (E3)</b>	<b>SLR/kWh</b>	<b>16.88</b>	<b>16.58</b>	<b>15.56</b>	<b>11.76</b>	<b>12.16</b>	<b>12.87</b>

<b>BST (E1)</b>		
<b>6-Month Weighed average</b>	<b>SLR/kWh</b>	<b>24.14</b>
<b>BST (E2)</b>		
<b>6-Month Weighed average</b>	<b>SLR/kWh</b>	<b>31.68</b>
<b>BST (E3)</b>		
<b>6-Month Weighed average</b>	<b>SLR/kWh</b>	<b>14.34</b>

E1 - Day  
E2 - peak  
E3 - off peak

## ESTIMATED ENERGY DISPATCH FORECAST from July to Dec

	Jul	Aug	Sep	Oct	Nov	Dec	Total
<b>Total Net Generation</b>	<b>1337.1</b>	<b>1340.4</b>	<b>1275.1</b>	<b>1302.8</b>	<b>1242.4</b>	<b>1275.6</b>	<b>7773.5</b>
Total Net Generation/day	43.1	43.2	42.5	42.0	41.4	41.1	
Generation Red. due to SPP	291.7	344.8	350.9	307.5	253.0	270.8	<b>1818.6</b>
Self Generation	0.0	0.0	0.0	0.0	0.0	0.0	
No. of days	31.0	31.0	30.0	31.0	30.0	31.0	
Generation (Centrally dispatch)	1045.4	995.6	924.3	995.4	989.4	1004.9	
Reqd. Generation/day(Centrally)	33.7	32.1	30.8	32.1	33.0	32.4	
<b>IPP</b>							
Southern 100MW	0.0	0.0	0.0	0.0	0.0	0.0	
WCPP	104.8	107.0	81.3	23.0	35.4	41.4	
<b>TOTAL IPP</b>	<b>104.8</b>	<b>107.0</b>	<b>81.3</b>	<b>23.0</b>	<b>35.4</b>	<b>41.4</b>	<b>392.9</b>
<b>CEB Thermal Generation</b>							
LAKVIJAYA1	167.3	167.3	161.9	165.5	140.8	167.3	
LAKVIJAYA2	167.3	167.3	161.6	164.3	154.0	167.0	
LAKVIJAYA3	0.0	0.0	62.5	164.3	154.8	166.1	<b>547.7</b>
SAPU B	38.2	38.2	32.1	16.5	19.5	27.0	
SAPU A	20.4	24.2	21.0	10.9	12.6	13.7	
BARGE	33.4	35.6	28.1	14.6	17.3	16.6	
Uthuru Jannanee	7.6	10.0	6.6	3.6	4.6	4.6	
KCCP_Naptha	27.5	20.5	4.3	0.7	7.4	2.4	
KCCP_Diesel	0.0	0.0	0.0	0.0	0.0	0.0	
GT7	7.0	5.0	0.0	0.0	0.0	0.0	
SMALL_GT	2.0	0.1	0.0	0.0	0.0	0.0	
KCCPS 2	27.0	13.5	0.0	0.0	0.3	0.0	
Hambanthota-CEB	3.7	1.9	0.1	0.0	0.1	0.1	
Matugama-CEB	1.7	1.1	0.1	0.0	0.1	0.0	
<b>Total CEB Thermal Generation</b>	<b>503.0</b>	<b>484.7</b>	<b>478.4</b>	<b>540.4</b>	<b>511.5</b>	<b>564.6</b>	<b>3082.7</b>
<b>Prospective Gen. / Energy shortfall</b>							
<b>Total Thermal Generation</b>	<b>607.8</b>	<b>591.7</b>	<b>559.7</b>	<b>563.4</b>	<b>547.0</b>	<b>606.0</b>	<b>3475.6</b>
<b>Hydro Gen Reqd.</b>	<b>437.6</b>	<b>403.9</b>	<b>364.6</b>	<b>432.0</b>	<b>442.5</b>	<b>398.8</b>	<b>2479.3</b>
Deficit	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Power cut saving	0.0	0.0	0.0	0.0	0.0	0.0	
Actual hydro reqd.	437.6	403.9	364.6	432.0	442.5	398.8	<b>2479.3</b>
<b>Inflow</b>	<b>426.0</b>	<b>358.8</b>	<b>370.7</b>	<b>624.0</b>	<b>542.9</b>	<b>481.3</b>	<b>2803.7</b>
Drawdown from reservoirs	-11.6	-45.1	6.1	192.1	100.4	82.4	
STARTING STORAGE	530.8	519.3	474.2	480.3	672.4	772.8	
Month End Storage	519.3	474.2	480.3	672.4	772.8	855.2	
<b>NCRE Breakdown</b>							
Bio mass	8.5	8.5	8.3	8.5	8.3	8.5	
Mini Hydro	96.8	147.3	167.8	172.4	152.5	157.7	
Bulk Solar	27.6	27.2	27.3	24.4	19.0	18.5	
Solar RT	57.6	56.7	58.8	55.4	48.4	49.4	
IPP Wind	55.6	60.7	46.5	28.1	12.5	18.5	
CEB Wind	45.6	44.4	42.2	18.6	12.5	18.2	



## Generation Capacity Cost

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Remarks :CCKP 02 Added

Item\Month	Unit	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
System Coincidental Peak demand	MW	2314	2209	2134	2154	2186	2160

## Capacity Payment

Plant\Month	Unit	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Mahaweli	Mn. SLR	745.7	745.7	745.7	745.7	745.7	745.7
Laxapana	Mn. SLR	325.5	325.5	325.5	325.5	325.5	325.5
Samanala	Mn. SLR	281.0	281.0	281.0	281.0	281.0	281.0
Mannar Wind	Mn. SLR	183.9	183.9	183.9	183.9	183.9	183.9
DSP1	Mn. SLR	134.9	134.9	134.9	134.9	134.9	134.9
DSP2	Mn. SLR	138.8	138.8	138.8	138.8	138.8	138.8
GT16	Mn. SLR	126.8	126.8	126.8	138.1	126.8	138.1
GT07	Mn. SLR	214.5	214.5	233.6	233.6	233.6	233.6
CCKP	Mn. SLR	165.3	165.3	165.3	165.3	165.3	165.3
CCKP 02	Mn. SLR	80.8	80.8	95.5	95.5	80.8	95.5
CPUT	Mn. SLR	2,048.1	2,048.1	2,048.1	2,048.1	2,048.1	2,048.1
DNCHU	Mn. SLR	41.2	41.2	41.2	41.2	41.2	41.2
Island Gen	Mn. SLR	8.0	8.0	8.0	8.0	8.0	8.0
BARGE	Mn. SLR	72.7	72.7	72.7	72.7	72.7	72.7
30MW Hambantota	Mn. SLR	22.5	22.5	22.5	28.0	22.5	22.5
20MW Mathugama	Mn. SLR	15.0	15.0	15.0	18.7	15.0	15.0
CCKW	Mn. SLR	1,184.3	1,184.3	1,146.1	1,184.3	1,146.1	1,184.3
RENW	Mn. SLR	0.0	0.0	0.0	0.0	0.0	0.0
<b>TOTAL</b>	<b>Mn. SLR</b>	<b>5,789.0</b>	<b>5,789.0</b>	<b>5,784.7</b>	<b>5,843.4</b>	<b>5,770.0</b>	<b>5,834.2</b>
Depreciation	Mn. SLR						
ROE	Mn. SLR						
Generation Capacity cost	Mn. SLR	5,789.0	5,789.0	5,784.7	5,843.4	5,770.0	5,834.2

## Generation Capacity cost

	Unit	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Generation Capacity cost	SLR/MW	2,502,135.30	2,620,458.45	2,710,504.14	2,712,570.26	2,639,381.23	2,700,553.27

## Energy price and Energy generated in each plant

Plant\Month	Unit	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Mahaweli	GWh	437.6	403.9	364.6	432.0	442.5	398.8
	SLR/kWh						
Laxapana	GWh						
	SLR/kWh						
Samanala	GWh						
	SLR/kWh						
Mananr wind	GWh	45.60	44.40	42.21	18.61	12.46	18.19
	SLR/kWh						
DSP1	GWh	20.4	24.2	21.0	10.9	12.6	13.7
	SLR/kWh	60.36	59.87	60.27	63.09	62.30	61.90
DSP2	GWh	38.2	38.2	32.1	16.5	19.5	27.0
	SLR/kWh	54.39	54.39	54.65	56.13	55.66	54.95
GT16	GWh	2.0	0.1	0.0	0.0	0.0	0.0
	SLR/kWh	155.08	293.36	3,314.32	0.00	1,321.37	0.00
GT07	GWh	7.0	5.0	0.0	0.0	0.0	0.0
	SLR/kWh	114.08	113.26	0.00	0.00	0.00	0.00
CCKP	GWh	27.5	20.5	4.3	0.7	7.4	2.4
	SLR/kWh	75.13	76.30	89.39	178.52	79.17	94.63
CCKP 02	GWh	27.0	13.5	0.0	0.0	0.3	0.0
	SLR/kWh	70.55	72.63	0.00	0.00	187.87	0.00
CPUT	GWh	334.7	334.7	386.1	494.1	449.6	500.4
	SLR/kWh	39.15	39.28	38.35	28.68	28.73	28.67
DNCHU	GWh	7.6	10.0	6.6	3.6	4.6	4.6
	SLR/kWh	53.99	53.60	54.21	55.73	55.01	55.02
Island Gen	GWh	0.20	0.20	0.2	0.2	0.2	0.2
	SLR/kWh	106.65	106.65	106.65	106.65	106.65	106.65
BARGE	GWh	33.4	35.6	28.1	14.6	17.3	16.6
	SLR/kWh	56.1	56.0	56.6	59.6	58.6	58.9
30MW Hambantota	GWh	3.7	1.9	0.1	0.0	0.1	0.1
	SLR/kWh	82.93	84.58	139.54	0.00	122.65	155.26
20MW Mathugama	GWh	1.7	1.1	0.1	0.0	0.1	0.0
	SLR/kWh	82.51	83.68	154.21	0.00	154.21	308.24
CCKW	GWh	104.8	107.0	81.3	23.0	35.4	41.4
	SLR/kWh	62.10	62.13	62.84	68.82	66.03	65.38
RENW	GWh	188.5	243.7	249.9	233.4	192.2	203.2
	SLR/kWh	18.52	18.26	18.28	18.28	18.63	18.95
Solar Rooftop Generation	GWh	57.6	56.7	58.8	55.4	48.4	49.4
	SLR/kWh	23.89	23.89	23.89	23.89	23.89	23.89
<b>TOTAL generated energy</b>	<b>GWh</b>	<b>1,337.3</b>	<b>1,340.6</b>	<b>1,275.3</b>	<b>1,303.0</b>	<b>1,242.6</b>	<b>1,275.8</b>

Energy Cost	SLR	35,602,796,584	35,057,599,566	31,300,916,770	24,179,472,317	23,837,770,284	25,908,495,336
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Energy Cost	SLR Million	35,603	35,058	31,301	24,179	23,838	25,908
		35,603	35,058	31,301	24,179	23,838	25,908
		35,603					

Total Energy cost for six-months	LKR Million	175,887.05
Total energy dispatch for six months	GWh	7,774.7
Six-month average energy cost	LKR/kWh	22.62
loss adjusted six-month average energy cost	LKR/kWh	23.42

Loss factor %		96.58	Loss Calculation Prepared by CS as at May 03, 2023
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## Notes

TOU enregy ratio is chaged as follows. These ratios were calculated using actual sales to DLs from May 2018 to April 2019 considering a consistent period of 12 months

TOU Factors	Day	Peak	Offpeak
	58.0%	19.7%	22.3%

## Capacity Transmission tariff (TR) &amp; Bulk Supply and Operations Business Tariff (BSS)

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Item	Unit	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Transmission system allowed revenue	Mn. SLR	1,690	1,690	1,690	1,690	1,690	1,690
BSOB allowed revenue	Mn. SLR	443	443	443	443	443	443
Term Loan	Mn. SLR	3,300	3,300	3,300	3,300	3,300	3,300
System Coincidental Peak demand	MW	2314	2209	2134	2154	2186	2160

Month	Unit	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Capacity Transmission tariff (TR)	SLR/MW	730,449	764,991	791,871	784,519	773,060	782,267
Bulk Supply and Operations Business Tariff (BSS)	SLR/MW	1,617,918	1,694,428	1,753,966	1,737,681	1,712,300	1,732,693

## Transmission Losses Factor

## Block 1

Month	Unit	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Forecasted transmission losses	GWh	27	27	26	27	25	26
Total forecasted energy supplied	GWh	776	778	740	756	721	740
<b>Forecasted TLF</b>	<b>%</b>	<b>3.51%</b>	<b>3.51%</b>	<b>3.51%</b>	<b>3.51%</b>	<b>3.51%</b>	<b>3.51%</b>

## Block 2

Month	Unit	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Forecasted transmission losses	GWh	12	12	11	12	11	11
Total forecasted energy supplied	GWh	263	264	251	257	245	251
<b>Forecasted TLF</b>	<b>%</b>	<b>4.49%</b>	<b>4.49%</b>	<b>4.49%</b>	<b>4.49%</b>	<b>4.49%</b>	<b>4.49%</b>

## Block 3

Month	Unit	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Forecasted transmission losses	GWh	7	7	7	7	7	7
Total forecasted energy supplied	GWh	298	299	284	291	277	285
<b>Forecasted TLF</b>	<b>%</b>	<b>2.49%</b>	<b>2.49%</b>	<b>2.49%</b>	<b>2.49%</b>	<b>2.49%</b>	<b>2.49%</b>

Capacity Transmission tariff (TR)	SLR	1,689,991,666.67	1,689,991,666.67	1,689,991,666.67	1,689,991,666.67	1,689,991,666.67	1,689,991,666.67
Bulk Supply and Operations Business Tariff (BSS)	SLR	3,743,269,278.92	3,743,269,278.92	3,743,269,278.92	3,743,269,278.92	3,743,269,278.92	3,743,269,278.92

avg tx loss factor	%	3.495%
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## Notes

Transmission Loss is taken as 3.42% according to Loss Calculation Prepared by CS as at May 03, 2023



Loan Repayment Schedule - July to December 2023

Bank & Loan Number	Int. Rate	Outstanding As At 31/12/2022	Outstanding As At 30/06/2023	AWPLR = 24		AWPLR = 24		AWPLR = 24		AWPLR = 24		AWPLR = 24		AWPLR = 24		AWPLR = 24	
				July 2023 (RS. M)		Aug 2023 (RS. M)		Sept 2023 (RS. M)		Oct 2023 (RS. M)		Nov 2023 (RS. M)		Dec 2023 (RS. M)		Total Repayment July to Dec 2023	
				Capital	Interest	Capital	Interest	Capital	Interest	Capital	Interest	Capital	Interest	Capital	Interest	Capital	Interest
1 PEOPLES BANK Coal loan	25.5	14,523.00	15,000.00	2,500	319	2,500	266	2,500	213	2,500	159	2,500	106	2,500	53	15,000	1,116
2 PEOPLES BANK Coal loan (NEW)	25.5		15,000.00														
3 PEOPLES BANK 0048001000008634	25	1,880.00	1,880.00		39		39		39		39		39		39		235
4 PEOPLES BANK 0048001000008661	25	1,328.00	1,328.00		28		28		28		28		28		28		166
5 PEOPLES BANK 0048001000009349	25.5	28,200.00	27,800.00		591		591		591		591		591		591		3,545
6 PEOPLES BANK 48001000006850	25.5		-														
7 PEOPLES BANK 2048001000005252	25.5	9,133.33	9,133.33		194		194		194		194		194		194		1,164
8 NSB 004100190209817	24.3	625.00	-														
9 NSB svndcate	26	3,560.00	3,000.00	280	65	280	59	280	53	280	47	280	41	280	35	1,680	299
10 BOC 84587079	25.5	11,710.00	10,426.00	214	222	243	217	243	212	243	207	243	202	243	196	1,429	1,255
11 BOC 85666658	25.5	4,820.00	4,700.00	20	100	20	99	20	99	20	99	20	98	20	98	120	593
12 SEYLAN BANK TLN-1191028000001	25.5	1,648.00	1,497.00	33	32	33	31	33	30	36	30	36	29	36	28	207	180
13 NTB 700010004517	25.25	272.00	132.00	28	3	28	2	28	2	28	1	20	0			132	8
14 NSB 608496147323	26	5,000.00	5,000.00	-	106	-	106	-	106	-	106	-	106	-	106	-	638
15 NTB New Loan-2022	25	2,312.50	2,000.00	63	42	63	41	63	40	63	38	63	37	63	36	375	234
16 NTB New Loan-2023	25		3,000.00	167	64	167	60	167	56	167	53	167	49	167	46	1,000	326
17 SEYLAN BANK New Loan 2023	26		2,000.00	-	43	-	43	-	43	-	43	-	43	-	43	-	260
18 BOC Pending Loan facility Club Loan	26		3,000.00	50	65	50	64	50	63	50	62	50	61	50	60	300	374
19 Pending Loan facility Asset Based Securitization	26		15,000.00		325		325		325		325		325		325		1,950
20 Pending Loan facility	26					1,000	192	1,000	214	1,000	238	1,000	261	1,000	286	5,000	1,191
20 PEOPLES BANK 0048001000013245	25.5	17,000.00	17,000.00		361		361		361		361		361		361		2,168
LC FACILITY PEOPLES BANK	2.006	5,000.00	7,500.00		13		13		13		13		13		13		75
21 PERMANENT OVERDRAFT	25.5	26,500.00	24,500.00		521		521		521		521		521		521		3,124
22 TEMPORARY OVERDRAFT	26	1,827.00	5,000.00		150		150		150		150		150		150		900
<b>TOTAL</b>		<b>133,698.33</b>	<b>188,896.33</b>	<b>3,354</b>	<b>3,281</b>	<b>4,383</b>	<b>3,402</b>	<b>4,383</b>	<b>3,352</b>	<b>4,386</b>	<b>3,304</b>	<b>4,378</b>	<b>3,255</b>	<b>4,358</b>	<b>3,208</b>	<b>25,243</b>	<b>19,802</b>