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இலங்கை மின்சார சபை
CEYLON ELECTRICITY BOARD

Your ref: My ref: DGM(CS&RA)/TRF/Trf. 2025 Date: December 17, 2024

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

First Electricity Tariff Revision 2025

This has reference to your letter no. PUC/E/Tariff/01 dated 2024-12-09 regarding the above.

Accordingly, the responses of the Transmission Licensee for the item 3 and 4 of Annex I of the above letter are as follows.

3. Calculation of electricity demand (net generation requirement) for 2025
Based on an analysis of historical data, a clear relationship between electricity demand growth and GDP growth has been observed. To reflect this, a correlation factor of 1.2 has been applied between the electricity demand growth rate and the GDP growth rate for this analysis.

As the GDP forecast for 2025 was not available at the time the proposal was developed, the 2024 GDP growth prediction of 4.4% was utilized as a proxy for 2025. With an estimated electricity demand of 16,685 GWh for 2024, and applying a 5.2% projected annual growth rate, the electricity demand for 2025 has been estimated to reach 17,553 GWh.

4. Calculation of NCRE generation for 2025
Annual NCRE generation for year 2025 has been calculated based on plant factor profiles and existing plant capacities and expected new capacity additions. Accordingly, new ground mounted solar generation capacity additions of 101 MW have been considered to be connected within year 2025 as per Renewable Energy Procurement & Performance Monitoring Branch updates. Thus, ground mounted solar capacity by the end of year 2025 is estimated to be 267 MW with annual generation of 299.6 GWh. In addition, 300 MW of new roof top solar generation capacity additions have been assumed to connect with 25 MW of new monthly addition within 2025 and thus roof top solar capacity by the end of year 2025 is estimated to be 1,543 MW with annual generation of 1,396 GWh.

Meanwhile, no new capacity additions have been considered for Wind, Mini Hydro & Bio mass plants. Thus, annual CEB wind, IPP wind and Bio mass generation for year 2025 has been estimated to be 369.7 GWh, 438.5 GWh & 157.9 GWh respectively. Furthermore, Mini Hydro annual generation of 1,240.9 GWh has been estimated considering average hydrological condition. Accordingly, estimated monthly NCRE breakdown for year 2025 is as follows.

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Month	Mini Hydro	CEB Wind	IPP Wind	Bio mass	Bulk Solar	Roof Top Solar	Monthly total
Jan	39.1	20.3	21.2	13.4	18.3	116.6	229
Feb	31.6	21	20	12.1	19.7	117.2	222
Mar	70	12.2	22.8	13.4	23.2	128.4	270
Apr	56.8	5.7	11.7	13	21.2	113.6	222
May	85.4	43	52.4	13.4	22.4	110.8	327
Jun	124	58.9	73.7	13	29.8	105.2	405
Jul	90.3	52.4	59	13.4	31.6	119.3	366
Aug	137.4	51.1	64.2	13.4	31.1	119.5	417
Sep	156.5	48.5	50.1	13	31.9	126.1	426
Oct	160.7	21.4	29.6	13.4	28	120.9	374
Nov	142.1	14.3	13.6	13	20.5	107.3	311
Dec	147	20.9	20.2	13.4	21.9	111.4	335
Annual total	**1,240.9**	**369.7**	**438.5**	**157.9**	**299.6**	**1,396.3**	**3,902.9**

Yours faithfully
CEYLON ELECTRICITY BOARD

Eng. KVSM Kudaligama
DGM (CS&RA)

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

Copy to: *Addl. GM (Tr. NWO)* *; fi pls.*