



KERALA STATE ELECTRICITY BOARD Ltd

(Incorporated under the Companies Act, 1956)

Registered Office: Vidyuthi Bhavanam, Pattom, Thiruvananthapuram – 695 004

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ABSTRACT

Formation of Committee for studying the impact of soaring solar penetration on the grid -
Sanctioned - Orders issued.

Corporate Office(Tariff and Regulatory Affairs)

B.O. (FTD) No. 190/2024 (KSEBL/TRAC-R1/Solar Penetration)
Thiruvananthapuram.

Dated:29-04-2024

Read : 1. Draft Renewable energy and net metering Regulations issued by KSERC.
2. Note No.KSEBL/TRAC-R1/Solar Penetration dated 04.04.2024 of Chief Engineer
(Commercial & Tariff) to the Full Time Directors (Agenda No.47-04/2024)

ORDER

The penetration of solar in the Kerala Power System is increasing at a rapid rate. This causes numerous issues both technical and commercial for distribution utility. Further with the introduction of the amendments proposed in Draft Renewable energy and net metering regulation, the situation may further aggravated. The impact of solar penetration needs a detailed study to identify the issues and for finding the solutions.

Considering the financial impact and technical issues on account of the increasing solar penetration, the Chief Engineer (Commercial & Tariff) as per note read as 2nd above has recommended to constitute a committee with the following members for conducting a detailed field study on the impact of solar penetration.

1. Shri Sunil.N .X. Employee Code:-1044355, Deputy Chief Engineer, System Operation Circle, Kalamasserry.(Team Leader)
2. Shri Suresh Kumar A., Employee Code: 1045563, Executive Engineer, O/O Chief Engineer(TSO), Kalamasserry.
3. Shri Subramony H.N, Employee Code:- Assistant Executive Engineer, Load Despatch Centre Kalamasserry.
4. Smt Remya S.R., Employee Code: 1063755 Assistant Executive Engineer, System Operation Circle, Kalamasserry.
5. Smt Seema. P. Nair., Employee Code:- 1058000 Assistant Executive Engineer, TRAC.
6. Shri Shine Raj, Employee Code:- 1064439 Assistant Executive Engineer, TRAC.
7. Shri Shan B.S., Employee Code:- 1064434, Assistant Executive Engineer, TRAC.
8. Smt Praseedha P. Employee Code :-1065502, Assistant Engineer, TMR meter Sub division, Angamali.
9. Shri Rakesh Prasannan, Employee Code 1067981, Assistant Engineer, O/o Chief Engineer (P&SCM)

The detailed study should includes the following.

- i. Impact of RE generation in power quality in LT system due to the installation of solar.

- ii. Neutral shifting phenomenon in distribution transformer due to the installation of solar.
- iii. Impact of increasing the cumulative capacity of distributed energy systems from 75% to 90%.
- iv. Commercial impact due to banking.
- v. Proposals for mitigating the technical and commercial issues.
- vi. Capacity of solar plants connected to each phase of transformer.

Having considered the recommendations of the Chief Engineer (Commercial & Tariff), Full Time Directors resolved to accord sanction for the following.

1. To constitute a committee with the following members for conducting a detailed field study on the impact of solar penetration which includes the issues mentioned above and submit a report by 10th June 2024.
 - i. Shri Sunil.N.X. Employee Code:- 1044355, Deputy Chief Engineer, System Operation Circle, Kalamasserry.(Team Leader)
 - ii. Shri Suresh Kumar A., Employee Code:- 1045563, Executive Engineer, O/O Chief Engineer(TSO), Kalamasserry.
 - iii. Shri Abdul Nasser. I, Employee Code:- 1055744, Finance Officer, O/o Financial Advisor
 - iv. Shri Subramony H.N, Employee Code:- Assistant Executive Engineer, Load Dispatch Centre Kalamasserry.
 - v. Smt Remya S.R., Employee Code:- 1063755 Assistant Executive Engineer, System Operation Circle, Kalamasserry.
 - vi. Smt Seema P. Nair., Employee Code:- 1058000, Assistant Executive Engineer, TRAC.
 - vii. Shri Shine Raj, Employee Code:- 1064439 Assistant Executive Engineer, TRAC.
 - viii. Shri Shan B.S., Employee Code:- 1064434, Assistant Executive Engineer, TRAC.
 - ix. Smt Praseedha P, Employee Code:-1065502, Assistant Engineer, TMR meter Sub Division, Angamali.
 - x. Shri Rakesh Prasannan, Employee Code:- 1067981, Assistant Engineer, O/o Chief Engineer (P&SCM).
2. To authorise the Chief Engineer (Transmission-SO) to share the power system related data to the above team for study and analysis.
3. To authorise the Chief Engineer (IT-CAPs) to share the Orumanet/Energise data to the team for study and analysis.
4. To direct Deputy Chief Engineer, Electrical Circle, Perumbavoor to provide necessary support such as sharing of testing equipments, deputation of field staff etc, whenever necessary, in coordination with the team leader.
5. To direct Deputy Chief Engineer, Electrical Circle, Ernakulam to depute required field staff for necessary support for the above study in coordination with the team leader.

Orders are issued accordingly.

By Order of the Full Time Directors

Sd/-
LEKHA G
COMPANY SECRETARY

To:

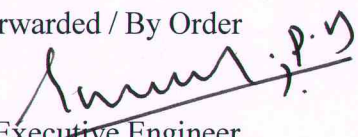
1. The Chief Engineer(Transmission-System Operation), Kalamasserry.

2. The Chief Engineer(IT-CAPS), KSEBL.
3. The Deputy Chief Engineer, Electrical Circle, Perumbavoor.
4. The Deputy Chief Engineer, Electrical Circle, Ernakulam.
5. The Deputy Chief Engineer, TRAC.
6. Shri Sunil.N .X. Employee Code:-1044355, Deputy Chief Engineer, System Operation Circle, Kalamasserry.
7. Shri Suresh Kumar A., Employee Code: 1045563, Executive Engineer, O/o Chief Engineer(TSO), Kalamasserry.
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15. Shri Rakesh Prasannan, Employee Code 1067981, Assistant Engineer, O/o Chief Engineer (P&SCM).

Copy to:

The Company Secretary / Chief Engineer (IT,CR&CAPS) / Financial Advisor / LA&DEO / Chief Internal Auditor / Chief Vigilance Officer
The TA to the Chairman & Managing Director / Director (Generation-Civil) / Director (Distribution, Safety, SCM & IT) / Director (Transmission, SO & Planning) / Director (Generation - Electrical, REES, SOURA, Sports & Welfare)
The PA to the Director (Finance & HRM)
The Sr.CA to the Secretary (Administration)
The RCAO/ RAO
Stock File.

Forwarded / By Order


Assistant Executive Engineer