

**KERALA STATE ELECTRICITY REGULATORY COMMISSION
THIRUVANANTHAPURAM**

Present : Sri T K Jose, Chairman
Adv. A J Wilson, Member
Sri B Pradeep, Member

OP 76/2023

In the matter of : Petition for approval of Capital Investment for the modification of EHT Substation for improving power supply reliability

Petitioner : M/s Rubber Park India Private Limited (RPIL)

Represented by : Sri. George.V.James, Managing Director, RPIL

Respondent : M/s Kerala State Electricity Board Limited

Represented by : Sri. Rajesh R, Asst. Executive Engineer, KSEB Ltd
Smt. Biji Christudas, Asst. Engineer, KSEB Ltd

Date of hearing : First hearing – 14.02.2024
Second Hearing – 30.01.2025

Interim Order dated 28-02-2025

1. M/s. Rubber Park India (P) Limited (hereinafter referred to as RPIL or the licensee or petitioner), is a distribution licensee regulated by the Kerala State Electricity Regulatory Commission (herein after referred to as the Commission) under the Electricity Act, 2003 for distribution of electricity to the Industrial units within the industrial park at Valayanchirangara near Perumbavoor in Ernakulam District. The licensee has filed a petition before the Commission for approval of Capital Investment for the modification of EHT Substation at their park at Irupuram Village, Kunnathunadu Taluk in Ernakulam District for improving power supply reliability.
2. The initial hearing on the petition was conducted on 14-02-2024 at the Court Hall, Office of the Commission. Sri. George.V.James, Managing Director, RPIL represented the licensee and presented the details of the petition. The EHT Substation of RPIL receives its power supply via the Kalamassery-Muvattupuzha (KLMV) and Kizhakkambalam-Muvattupuzha (KZMV) 110 KV feeders via less reliable Tap-Line configurations. The initial proposal of KSEB Ltd was to modify the existing transmission tower (D-30) at the tap point with the insertion of a box cross arm to convert the tap line to LILO at the project cost of Rs.284 lakh which was subsequently revised as Rs.339 lakh.

3. The licensee had stated that the investment improves power supply reliability to the consumers of the licensee and SCADA visibility and operational control of the substation of RPIL with SLDC as specified in the Kerala State Grid Code, 2005. The licensee also stated that they have obtained advance approval from the Chief Engineer (Transmission South) KSEB Ltd as well as the Chief Electrical Inspector. The licensee has attached the copies of the approval obtained and has also submitted the layout & single line diagrams for both the existing substation and proposed modifications.
4. Subsequently KSEB Ltd has informed that the insertion of a new tower (D-60) is required near the existing tap point as part of the LILO arrangement. KSEB Ltd submitted a total cost estimate amounting to Rs.106 lakh which includes insertion of new D-60 tower, replacing of ACSR wolf conductor from the LILO point to substation gantry of RPIL with ACSR lynx, stringing of new OPGW and provision for remote visibility and remote controlled operation.
5. Considering the revised proposal and for insertion of a new tower (D-60) required near the existing tap point as part of the LILO arrangement, a second hearing was conducted on 30.01.2025 at the Court Hall, Office of the Commission. Sri. George.V.James, Managing Director, RPIL briefed the revised petition and submitted that the revised total cost is Rs.421.84 lakh. The scope of work was also briefed which includes;
 - a) Transforming the feeding configuration within the Substation into a Line-In-Line-Out (LILO) arrangement from the existing tap line configuration.
 - b) Installation of Circuit Breakers with C&R panel having BCU in the 110 kV incomer feeders.
 - c) Construction of building for C&R panel near incomer Bay.
 - d) Extension of OPGW for 110 kV Kalamassery-Muvattupuzha (KLMV) feeder up to the substation of RPIPL on deposit work basis with KSEB Ltd.
 - e) Replacement of existing ACSR Wolf conductor tap line with ACSR Lynx
 - f) Remote visibility and operation control of the circuit breakers from SLDC, Kalamassery
 - g) Construction of store room for spares of 110 kV Equipment.
6. The details of the time schedule proposed for the investment pattern and funding pattern was also submitted before the Commission. He also suggested for setting up a Committee for studying the necessity of insertion of a new tower (D-60) near the existing tap point as part of the LILO arrangement as the same lead to a significant increase in cost.
7. KSEB Ltd was represented by Sri. Rajesh R, Asst. Executive Engineer, KSEB Ltd. The Commission sought the opinion of KSEB Ltd with regard to the suggestion of RPIL for setting up the Committee. KSEB Ltd stated that they are open for discussions and setting up the Committee to study the matter.

8. Considering the suggestion of RPIL and concurrence of KSEB Ltd for formulating the Committee for optimising the works required for the LILO arrangement, the Commission decides to constitute a Committee to study the necessity of insertion of a new tower (D-60) and to analyse the scope of optimizing the cost without compromising safety or efficiency.
9. It was submitted during the hearing that Sri. George.V.James, Managing Director, Rubber Park India Private Limited will be the representative of RPIL in the Committee. M/s KSEB Ltd vide letter dated 17.02.2025 submitted their nomination of Officers to be part of the Committee.
10. Accordingly, the Commission hereby constitutes the Committee for optimising the item of works and their cost with the following members

1	Sri. Mohanakumar. B.V , Consultant (Technical), KSERC	Chairman of the Committee
2	Sri. George.V.James, Managing Director, RPIL	Member
3	Sri Pradeep Kumar S, Deputy CE, Transgrid, KSEB Ltd	Member
4	Sri Anil Kumar, Deputy CE, Transmission Circle, Thodupuzha, KSEB Ltd	Member
5	Sri Biju Jacob, EE, O/o CE, Transmission (South), KSEB Ltd	Member
6	Sri. Nevin Abraham, Junior Consultant (Finance), KSERC	Convener of the Committee

11. The Committee shall thoroughly evaluate and analyse technical aspects of the project, provide expert feedback and recommendations, based on reviewing technical specifications, assessing feasibility, identifying potential risks and suggesting optimal solutions to arrive at a prudent cost. The Committee shall submit a detailed report to the Commission, after properly analysing possible alternatives and cost parameters.

Sd/-
Sri. T.K Jose
Chairman

Sd/-
Adv. A. J. Wilson
Member

Sd/-
Sri. B. Pradeep
Member

Approved for issue
Sd/-
C.R.Satheesh Chandran
Secretary