



## KERALA STATE ELECTRICITY BOARD Ltd

(Incorporated under the Companies Act, 1956)

Office of the Director (Transmission & System Operation, Planning & Safety)

Registered Office: Vidyuthi Bhavanam, Pattom,

Thiruvananthapuram – 695 004

CIN: U40100KL2011SGC027424

Website: www.kseb.in

Phone : 91-471 2514576, 9446008884

Email: dtkseb@kseb.in

### ABSTRACT

KFON Project - OPGW - Acceptance of deviation in splice loss during post installation SAT / link commissioning - Sanctioned - Orders issued.

### CORPORATE OFFICE (SBU-T)

BO (FTD)No.61/2023(D(T&SO)/T4/SO/KFON/20-21)

Thiruvananthapuram, Dated: 10.02.2023

- Read: 1. Minutes of the KFON review meeting convened by the Chairman & Managing Director on 31.10.2022.
2. Note No. CEIT/RITU/KFON/SAT/2021-22 (9) dated 12.01.2023 of the Chief Engineer (IT, CR & CAPS) to the Full Time Directors (Agenda Item No. 15/01/23).
3. Minutes of the FTD meeting dated 18.01.2023 (Agenda Item No.15/01/2023).
4. Letter No. KSITIL/KFON/2022-23/033 dated 20.01.2023 of the Project head, KFON.
5. Note No. D(T&SO)/T4/SO/KFON/20-21(10) dated 25.01.2023 of the Director (T, SO, P&S) to the Full Time Directors (Agenda item no. 48/1/23).

### ORDER

M/s. LS Cables, the Contractor of KFON project, has not been able to achieve the splice losses at some splice points within the limits specified in the tender documents and the work order issued by KSITIL. KSITIL, the employer of the contract, requested waiver in the individual splice loss subject to the condition that the link loss is within the limits.

As per the agreement and MoU the measurement of the parameters of the OPGW installation is to be certified by KSEBL. Further, 50% of the fibres is belonging to KSEBL and the proportionate amount is paid by KSEBL to KSITIL. Hence, the decision on the matter of waiver of specifications requires consent from KSEBL also.

After several deliberations at various levels with officials of KSITIL, KSEBL and the contractors, it was decided in the joint meeting held on 31.10.2022 that for the time being, maximum splice loss upto 0.3 dB in any direction can be considered. This was for site acceptance, subject to the fulfillment of other conditions.

The matter was presented before the meeting of Full Time Directors as per note read as 2<sup>nd</sup> above.

The KFON Technical Committee meeting (of KSEBL) held on 23.11.2022 deliberated the matter of splice losses in detail and the following recommendations were made based on ITU-T L400/L.12 Standard :

- Acceptance criteria for splice test as per Site Acceptance Test (SAT) Procedure can be modified as "The average bidirectional attenuation of all splices shall be  $\leq 0.1$  dB"
- Considering the practical field conditions, the average splice loss values  $> 0.1$  dB and  $\leq 0.2$  dB can also be considered for 5% of the total number of splices in the link, if such splices are distributed in the link.

The above relaxation was recommended only for the already made splices. The Technical Committee observed that 17 out of 45 links tested will pass the site acceptance tests, if the above clauses are adopted and the number of splice locations where rework is required will come down considerably.

Though decisions were made as per minutes read as 3<sup>rd</sup> above, it was decided to reconsider the same in view of the request from KSITIL, as per letter read as 4<sup>th</sup> above, for accepting splice loss as 0.3 dB in all cases citing some clauses of the International Telecommunication Union (ITU) ITU-T L.400/L.12 Standard and interpretation of the relevant clauses.

The matter was placed before the Full Time Directors as per note read as 5<sup>th</sup> above.

Having considered the matter in detail, the Full Time Directors in the meeting held on 25.01.2023, noted that the contract is bidden out by KSITIL. KSITIL is responsible for executing the project KFON and have to do contract management. All the responsibility to execute the project as per specification in the order issued by KSITIL shall be of KSITIL. KSEBL had agreed to consider maximum splice loss upto 0.3 dB in any direction in the joint meeting on 31.10.2022.

The Full Time Directors resolved the following:-

- i. To follow up the matter as decided in the joint meeting on 31.10.2022.
- ii. KSITIL has issued the work order. The same may be amended appropriately by KSITIL in order to operationalise the decision (iii).
- iii. For the splice loss in the case of package-B for which part payment has to be made by KSEBL, acceptance criteria for Site Acceptance Test can be modified as "The average bidirectional attenuation of all splices shall be  $\leq 0.1$  dB and the average splice loss values  $> 0.1$  dB and  $\leq 0.2$  dB may be accepted for 5% of total number of splices in each link".
- iv. For package B, if in the KSEBL Site Acceptance tests / reports it is found beyond limits as above, KSITIL shall get it rectified through contractor at their cost.
- v. The decision regarding splice loss within the 'stipulated range' is to be taken by KSITIL after considering the report of KSEBL appropriately and KSITIL shall be accountable for the same.
- vi. Immediate action shall be taken to process the payment of the already completed works which satisfy the acceptance criteria.

Orders are issued accordingly.

By Order of the  
Full Time Directors

Sd/-

LEKHA G  
Company Secretary

To:

The Chief Engineer (IT, CR & CAPs)

Copy to: The Chief Engineer (Transmission System Operation)/ Financial Advisor / Chief  
Internal Auditor/ Company Secretary  
The TAs to CMD/ D(T,SO,P&S)/ D(D,IT & SCM )/ D(G-C)/ D(GE & HRM)/  
D(REES,S,N,S&W)  
The PA to Director (Finance)  
The Sr. CA to Company Secretary  
Stock File.

Forwarded / By Order



Assistant Executive Engineer