

**15 -ാം കേരള നിയമസഭ**

**9 -ാം സമ്മേളനം**

**നക്ഷത്ര ചിഹ്നം ഇല്ലാത്ത ചോദ്യം നം. 40**

**08-08-2023 - ൽ മറുപടിയ്ക്ക്**

**കെ-ഫോൺ പദ്ധതി**

ചോദ്യം		ഉത്തരം	
<b>ശ്രീ. കെ. ബാബു (തൃപ്പൂണിത്തുറ)</b>		<b>ശ്രീ. പിണറായി വിജയൻ (മുഖ്യമന്ത്രി)</b>	
(എ)	കെ-ഫോൺ പദ്ധതിയുടെ സുപ്രധാന ഘടകമായ ഒപ്റ്റിക്കൽ ഗ്രൗണ്ട് വയറുകൾ അഥവാ ഒ.പി.ജി.ഡബ്ല്യു. കേബിളുകൾ സംബന്ധിച്ച് സി.എ.ജി. ഒബ്സർവേഷൻ സമർപ്പിച്ചിട്ടുണ്ടോ; എങ്കിൽ രേഖകളുടെ പകർപ്പ് ലഭ്യമാക്കാമോ;	(എ)	ഉണ്ട്; ഓ.പി.ജി.ഡബ്ല്യു. കേബിളുകൾ സംബന്ധിച്ച് സി.എ.ജി. സമർപ്പിച്ച ഒബ്സർവേഷന്റെ പകർപ്പ് അനുബന്ധം I ആയി ഉള്ളടക്കം ചെയ്യുന്നു.
(ബി)	പ്രസ്തുത കേബിളുകൾ സംബന്ധിച്ച് കെ.എസ്.ഇ.ബി. നടത്തിയ പരിശോധനയുടെ വിവരങ്ങൾ കെ.എസ്.ഐ.ടി. ഐ.എൽ. ന് സമർപ്പിച്ചിട്ടുണ്ടോ; എങ്കിൽ ആയതിന്റെ പകർപ്പ് ലഭ്യമാക്കാമോ?	(ബി)	ഉണ്ട്; കെ.എസ്.ഐ.ടി.ഐ.എൽ.-നു സമർപ്പിച്ച വിവരങ്ങൾ അനുബന്ധം II ആയി ഉള്ളടക്കം ചെയ്യുന്നു.

സെക്ഷൻ ഓഫീസർ



PRINCIPAL ACCOUNTANT GENERAL (AUDIT-II), KERALA

അനുബന്ധം I



Local Audit Party : CA Party 08  
Auditee Unit Name : Kerala State Information Technology Infrastructure Ltd  
Dated : 12-Jul-23

Audit observation reference : #23 (OBS-763518)

**Subject: Unilateral reduction in OPGW quantity of Package B without permission from KSEBL**

The Reliable Communication Project aimed to connect all 110 kV and above sub-stations through 24 core OPGW to enable differential protection, enhanced communication and grid data management.

Following Government of Kerala decision, the OPGW part of the Reliable Communication Project is being executed through Package B of KFON. Anticipating KFON project along with KSBEL's Reliable Communication Project, PSDF sanction was requested for the project including 48 fiber OPGW. PSDF approval for Rs. 147.45 crore restricting fiber to 24 was issued in November 2017. Fifty percent of the approved amount i.e. Rs. 73.76 crore was also sanctioned as grant.

Master Service Agreement dated 09 March 2019 entered between KSITIL and M/s BEL was extended through 4<sup>th</sup> Supplementary Agreement dated 19 April 2023, whereby the project timeline is extended to 30 September 2023.

KSEBL vide letter dated 27 May 2023 addressed to the Managing Director KSITIL pointed out that as per the original BOQ of Package – B, the OPGW quantity was 2900.49 Km. In the 4<sup>th</sup> supplementary agreement dated 19 April 2023 to the Master Service Agreement with M/s BEL, the BOQ quantity of OPGW under Package B was reduced to 2751 Km from 2900.49 Km.

KSEBL added that they had reported about 59 additional links (about 730 Km) in Package which was essential for the successful completion of the PSDF aided Reliable Communication Project. Most of these links were reported in 2020 and 2021. There was inordinate delay from the part of the OPGW contractor to survey these links and they had not till date not surveyed about 20 links (about 253 Km). Out of the 59 links, survey and BOQ approval was completed for about 470 Km (37 links). In this the contractor completed installation of only 77.44 Km (12 links).

Even after repeated reminders and correspondence and raising the matter in several review meetings, material supply of about 646 Km was pending apart from delay in testing and commissioning of the already installed links. Further, delay in manufacturing and supply of the material would adversely affect the completion of the Reliable Communication Project.

KSEBL reminded that OPGW quantity in Package-B was 2900.49 Km and as per contractual conditions, there was provision for additional quantity up to 25% and still the quantity was seen reduced to 2751 Km in the supplementary agreement. KSEBL alleged that this was done without any interaction with KSEBL.

In Package A also, the OPGW was found reduced to 100 Km from 516 Km. KSEBL reminded that OPGW through 66 kV and 24 to 48 F upgradation could be implemented only through Package A.

Considering the above, KSEBL requested KSITIL to revise the supplementary agreement to correct the OPGW quantity and revise it to 3546 Km based on the already projected requirement, to verify the reduction made in the OPGW quantity in Package A from 516 to 100 Km and to take urgent steps to mobilise the manufacturing and supply of OPGW for completing the remaining links.

Thus, it is observed in Audit that KSITIL had unilaterally reduced the OPGW quantity in Package B which it is implementing for KSEBL.

Reasons for reduction in the quantity of OPGW both in Package B and Package A may be intimated to Audit. Action taken for completing the work by facilitating the supply of balance work by the System Integrator to address the issues pointed out by KSEBL may also be furnished to Audit.

(Sumesh S R)  
Sr. Audit Officer

SAO (Field -AMG II)

Kerala State Information Technology Infrastructure Ltd





**KERALA STATE ELECTRICITY BOARD LTD**

(Incorporated under the Indian Companies Act, 1956)

Reg. Office: Vidyuthi Bhavanam, Pattom, Thiruvananthapuram-695004

Office of the Chief Engineer(IT, CR& CAPS)

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Website: [www.kseb.in](http://www.kseb.in) CIN: U40100KL2011SGC027424

No. CE-IT/RITU/KFON/FAT/2020-21/ 68

Dated: 30<sup>th</sup> May, 2020

To  
The Managing Director,  
Kerala State IT Infrastructure Ltd,  
7<sup>th</sup> Floor, Felicity Square, MG Road Statue  
Thiruvananthapuram - 695 033

KSITIL INWARD No. 161			
LAND FIN	ENGG. PROJECT	TELECOM PROJECT	LEGAL ADMIN
01 JUN 2020			
PROJECT MANAGER	SPECIAL OFFICER	AM/EF	
DM	MANAGER	DM/STA	
GM (T)	CS&FM	MD	

Sir,  
Sub: - K-FON Project – Conducting/Witnessing FAT of OPGW cable over live video due to Covid 19 pandemic - reg.

- Ref:-
1. Office Order(D T,SO&S) No. 804/2020(CE-IT&CR/RITU/KFON/2020-21), TVPM dated 29.05.2020.
  2. Letter No. CESO/Tech/Reliable-Commn/OPGW-FAT/2020-21/429 dated 27.05.2020 of the Chief Engineer(T-SO)
  3. Remarks of KFON Technical Committee (Note No.23) dated 27.05.2020.
  4. That office Letter No. KSITIL/KFON/MD/20/3404 dated 25.05.2020
  5. This office Letter No. CE-IT/RITU/K-FON/FAT/2020-21/51 dated 22.05.2020.

Board vide order dated 29.05.2020, accorded sanction to depute Smt Sheela M Daniel, Resident Engineer, New Delhi for witnessing the FAT of OPGW at the factory of M/s L S Cable India Pvt Ltd, Haryana and authorized KFON Technical Committee members to witness the FAT of OPGW over live video from Kerala.

The remarks of KFON Technical Committee, KSEBL on Witnessing FAT of OPGW cable (Online Virtual Inspection Procedure) over live video, submitted vide Note No.23 along with office order dated 29.05.2020 vide ref(1) are forwarded herewith for compliance and further necessary action from that end. The comments on payment conditions for this lot of OPGW suggested by Technical Committee may also be submitted.

Yours faithfully

Chief Engineer (IT, CR&CAPs)

- Acc :
1. Remarks of KFON Technical Committee (Note No.23) dated 27.05.2020.
  2. Office Order dated 29.05.2020.







**Note No.23**

**Submitted to the Chief Engineer (IT & CR)**

Sub: KFON Technical Committee - Remarks on comments from the members on the documents received on 25.05.20 on OPGW Online FAT – Reg.

Ref: -1. Email dated 25.05.20 from CE(IT&CR) on procedure for witnessing online inspection of FAT of OPGW

2. Comments on the documents received from the Tech committee members

Please refer to the above.

The comments received on documents forwarded from that office vide reference (1) is compiled and remarks arrived by discussions with the commentators by undersigned is enclosed for reference.

The remarks by the Technical Committee is as follows: -

**A. General**

From the submitted document by LS Cables, it is not clear that the FAT is being done as live as mentioned in the letter. It is understood that the photographs & videos of tests will be shared after conducting tests.

This product is new and no previous performance certificate is possible for this one. The type test done only during last December - January months in China and KSEBL could not witness tests due to various reasons. The authenticity of the testing lab is verified only by PwC China team as reported by KSITIL. KSEBL now only rely on this report by KSITIL. The next possibility for direct quality assurance is through FAT. If this virtual methodology is accepted, there is no direct quality checking by KSEBL. At the most, quality will be known to some extent only after completing the SAT II, which will be done after installation of OPGW over the towers.

As per the payment conditions, 50% material value shall be made after satisfactory acceptance of the materials in the site – SAT I (pre – installation SAT). If their proposal is accepted, it is suggested to defer the payment for this lot and proposed to be made after SAT II (Post installation SAT).

As this is a new way of witnessing FAT in the time of COVID pandemic, it recommended to take approval from higher authorities of KSEBL for proceeding further.

***If KSEBL decides to go for Online FAT, the following specific remarks/instruction shall be strictly followed and revised documents for Online Virtual Inspection shall be submitted for approval.***

**B. Specific remark on Online FAT**

**Drawing / Document Number: Nil**

**Drawing / Document Description – Online Virtual Inspection Procedure (OPGW Cable)**

1. The document is not submitted in the required format as agreed upon by the contractor in several meetings.





9. The recorded videos and photographs shall be uploaded / sent to the inspector immediately upon completion of the test (by the end of the day on which the inspection occurred). Any assumptions or exceptions made by the remote inspector / testing party must be clearly brought out in the report.

10. The Test procedure and Record format shall be as per the Approved FAT procedure- LSCI-18-178-FAT-01-Rev-02 dated 02-03-2020.

Sanalkumar K


Deputy Chief Engineer

27.05.2020







00	Issued for Approval		Name	Abhishek	
			Date	02.03.2020	
Rev No.	Description/Reason for Revision	Modified Page Nos.	Prepared By (LS Cable India Pvt. Ltd.)	Signature	

**CLIENT :**

  
 Kerala State IT Infrastructure Ltd



  
 BHARAT ELECTRONICS




**System Integrator (SI)**

**PROJECT:**

## Kerala Fiber Optic Network (KFON) & Reliable Communication and Data Acquisition Network

**Submittal Letter Ref. No & Date: KFON-BEL-LSBW-43 Dated: Mar.02,2020**

<b>CONSORTIUM PARTNER:</b>		<b>Title: Type Test report of Optical fibre used in OPGW</b>	
<b>LS CABLE INDIA PVT. LTD</b>			
<b>KSITIL/KSEBL Drawing or Document No.</b>	<b>LS DOCUMENT NO.</b>	<b>TOTAL SH.</b>	<b>REV.</b>
No.:	LSCI-18-178-TTR-OPGW Fibre-01	40	00

	Submitted By (BEL)	Reviewed By (KSITIL/PMU)	Approved By (KSEBL)	Category of Approval
<b>Name &amp; Deg.</b>			 Chief Engineer (IT)	Approved (Cat I) <input type="checkbox"/>
<b>Sign.</b>				Approved Subject to incorporation of Comments (Cat II) <input type="checkbox"/>
				To be resubmitted for approval after incorporating comments (Cat III) <input type="checkbox"/>
				For information and record (Cat IV) <input type="checkbox"/>

**KSEBL Remarks/Comments:**

