

**Abstract**

Request of Sri. Krant K. James, Sr. Manager, Tata Coffee Ltd, Malakiparai Estate Athirappally Grama Panchayat, Thrissur, an existing HT consumer under Electrical Section, Pariyaram under Electrical Circle, Irinjalakuda, to provide stable power supply- Procedure to avail supply from TNEB – Sanctioned – Orders issued

CORPORATE OFFICE (SBU-D)**B.O.(FTD) No. 453 /2020 (D(D&IT)/D-2/LV&Int/Tata Coffee/ 2020-21) Dated, TVPM 01.07.2020**

Read: 1. Letter no CE(DC)/E2/HT-General/2019-20/4573 dated 14.02.2020 of the Chief

Engineer, Distribution (Central), Ernakulam

2. Letter no. CE(DC)/E2/HT General/19-20/3502 dated 27.11.2019 of the Chief

Engineer, Distribution (Central), Ernakulam

3. Letter from Sri. Krant K. James, Sr. Manager, Tata Coffee Ltd, Malakiparai Estate, Athirappally Grama Panchayath, Thrissur dated 31.07.2019 and 10.09.2019

4. B.O(FM)(Genl) No.1169/2010 (DPCI/C-GI/03/09) dated Thiruvananthapuram 07.05.2010

5. Note no. DGE/GE/Sholayar-Availing supply from TNEB/20-21/26 dated 18.05.2020 of the TA to Director(GE &SCM)

6. Note no.D(D,IT & HRM)/D2/LV & Int/Tata Coffee/2020-21 dated 17.06.2020 addressed to the Chairman and Managing Director, KSEBL

7. Note No. D(D,IT & HRM)/D-2/LV & Int/Tata Coffee/ 2020-21/ dated 22.06.2020 of the Director (Distribution, IT & HRM) to the Full Time Directors (Agenda No. 69/6//20)

ORDER

Sri. Krant K. James, Sr. Manager, Tata Coffee Ltd, Malakiparai Estate, Athirappally Grama Panchayath, Thrissur, an existing HT consumer under Electrical Section, Pariyaram, as per letter read 3 above, has informed that the Tea factory of Malakiparai Estate is owned by Tata Coffee Ltd. and comprises two components viz. (1) 778.33 Ha of tea garden and (2) a Tea factory with a high tension (HT) electrical connection with consumer number 12/1210 having a contract demand of 600kVA and with a total connected load of 1300 HP. They employ more than 950 people directly and nearly 3 times of that number indirectly draw their livelihood from their organization.

The power to their premises is taken from substation at Sholayar Power House 35km away from the premises. As such they have complaint that the aggregate period of power failure in a year outstrips the aggregate period of steady power supply. There is much difficulty in reinstating power supply to this area which may even take days. The frequent power failure affects quality of their product and cost parameters are escalated.

Their average monthly bill comes to around Rs. 8 lakhs. It is also informed that the company is purchasing diesel worth Rs. 1.41 Cr for the last 4 years for self generation due to power outages. Also, the power supply of TNEB is very close to the border and all establishments there work without much supply interruption and requested to extricate them from their predicament. They have requested to find a permanent solution to solve the problem and requested to provide uninterrupted power supply.

Further, they have informed that they are incurring huge expenditure in connection with repairs and maintenance of 11kV HT lines and LT lines in and around Malakiparai estate and remote villages. They are providing man power support with huge expenditure in connection with large number of labour utilization for KSEBL LT & HT repairs, since decades. It is very difficult for KSEBL to provide sufficient staff at that remote center, about 70km away from the section office and where road access is limited. Due to safety norms, they cannot engage their estate labourers alone for routine maintenance of 11kV HT/LT without sufficient supervisory staffs.

The Chief Engineer Distribution (Central) along with Deputy Chief Engineer, Electrical Circle, Irinjalakuda and Generation Wing Engineers conducted a site inspection and found that the status of the electrical network was very unreliable and the complaint seems to be true. There are frequent interruptions in this feeder due to falling of trees in the forest. Maintaining this 35km long line trouble free through the dense forest with wild animals, is very difficult. However, it was decided to maintain the line to the maximum possible extent and a thorough maintenance was planned for the following three months.

The main issue is the reliability of the line source. It is taken from Sholayar Power House and only one 110/11kV Transformer and source is available. From this feeder, in addition to the above HT connection, five ST colonies, electrified during 100% electrification project, are also fed. Hence, the proposal of taking an alternate source from the TNEB side is more advisable for the reliability. It can also act as an auxiliary source to Kerala Sholayar Power House.

22KV distribution line which emanate from Tamil Nadu Sholayar Power House is very near about 1.2 km away from the HT consumer and is a very reliable supply with good power quality. If

reliability and outage issues of Malakiparai and the nearby ST colonies can be redressed. Moreover, loss and difficulty in urgent outage maintenance of 11kV line through thick forest, can be reduced. The main advantages of this feeding arrangement is that the interruption can be reduced, thus can maintain customer satisfaction and revenue can be increased. However, the financial aspect of drawing power at 22kV from Tamil Nadu is to be analyzed on commercial terms.

The Chief Engineer, Distribution (Central), based on the decision in the meeting held on 24.01.2020, has forwarded an estimate amounting to Rs. 92,50,000/- (Rupees Ninety Two Lakhs Fifty Thousand Only) for providing alternate 11kV feeding arrangement at Malakiparai from Tamil Nadu (Interstate feeding between Tamil Nadu and Kerala). The works included in the estimate for extending power from TNEB are :

1. Tapping of 22kV line near Tamil Nadu Check Post, site clearing works, civil foundation works and install metering arrangements.
2. Installation of 2 MVA, 22/11kV Transformer with Control Panel along with 22kV ODC, 11kV ODC and protection at tapping point.
3. Construction of 700m of 11kV OH line using Lattice Tower and A type pole, from the tapping point to interlinking point.

The Chief Engineer (Generation & PED), as per letter read 5 above, has informed that the proposal for provision of standby supply from TANGEDCO is complicated and financially unviable and has furnished the following observations:

1. The proposal is complicated with two sources of different licensee in the same premises for the same loads. There is complication of area of supply, system of tariff and safety as it is proposed to be a standby supply. There is no MoU with TANGEDCO for extending 22kV supply to KSEBL.
2. The beneficiary of the proposal is M/s. TATA Coffee, so it may be treated as deposit works of the beneficiary. Also, the rate of TANGEDCO is higher, so the proposal will be huge liability to KSEBL due to tariff difference.
3. Even on requirement of such a standby supply from TANGEDCO, there need to have an appropriate agreement between licensees and clarity on whether it is between utilities or between Utility and consumer. The estimate does not include provision for 0.2 class border metering with a facility for safe locking and suitable building for accommodating the same.

There is no urgent need for auxiliary supply to Sholayar Powerhouse as the 110kV Supply is available from Chalakudy Substation and Poringalkuthu Substation.

As per letter read 6 above, the matter was submitted to the Chairman and Managing Director for necessary direction, wherein it was directed to place the matter before the Full time Directors.

Accordingly, the matter was placed before Full Time Directors as per note read as 7th above.

Having considered the matter in detail, the Full Time Directors in the meeting held on 25.06.2020, resolved to accord sanction to proceed with the proposal of alternate 11kV interstate feeding between Tamil Nadu and Kerala to provide uninterrupted power supply to Malakiparai Tea estate.

Further resolved to take up the matter with Tamil Nadu Generation & Distribution Corporation Limited (TANGEDCO).

Further resolved to entrust the Chief Engineer Distribution (Central) to confirm whether the cost required for the alternate 11kV interstate feeding arrangement from TNEB to Malakiparai Tea Estate, will be met by the petitioner.

Orders are issued accordingly.

By Order of Full Time Directors,

Sd/-

Lekha G.

Company Secretary (In charge)

To

1. The Chief Engineer Distribution Central, Ernakulam
2. The Deputy Chief Engineer, Electrical Circle, Irinjalakuda

Copy to:

The Chief Engineer (IT&CR)

The Financial Adviser/The Chief Internal Auditor

The RCAO/The RAO/The LLO

The TA to Chairman & Managing Director

The TA to Director (Distribution, IT & HRM / Transmission, System Operation & Safety / Generation-Electrical & Supply Chain Management / Generation-Civil)

The PA to Director (Finance)/ Senior CA to Secretary (Administration),

Company Secretary (I/C)

The Fair Copy Superintendent/Library/Stock File

Forwarded/By Order



Assistant Executive Engineer