



KERALA STATE ELECTRICITY BOARD LIMITED

(Incorporated under the Companies Act, 1956)

Reg.Off ce: Vydyuthi Bhavanam, Pattom, Thiruvananthapuram – 695 004

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ABSTRACT

Power transformers that are faulty and beyond repairs lying at various substations – Decommissioning and survey reporting -- Sanction accorded – Orders issued

Corporate Office (SBU-T)

B O. (FTD)No. 414 /2022[D(T &S C)/T5/ ADN-Sanction/2022-23] Thiruvananthapuram dated 20.05.2022

Read : Note No. D(T&SO)/T5/ADN—Sanction/2022-23/118 dated 17.5.2022 of the Director(T&SO) (Agenda item No.59/5/22)

ORDER

The useful life expectancy of power transformers as per the Kerala State Electricity Regulatory Commission (Terms and conditions for determination of Tariff) Regulations, 2018, is 25 years. While majority of transformers in the Kerala Power System deliver satisfactory performance exceeding the expectancy as above, a few transformers fail prematurely. Generally, the failed transformers are repaired at the Power Transformer Repair Units at Kalamassery and Kozhikode and put back to service. However, some transformers become irreparable due to inherent quality issues and poor design. The Asset Decommissioning Notes (ADN) are prepared for such failed transformers that are not repairable on economical and technical grounds and are survey reported.

The Chief Engineers, Transmission North and South have reported that a number of power transformers that became faulty within the useful life span are lying at various substations. The PET & PTRU wings after detailed testing of the transformers reported that, these transformers cannot be repaired due to inherent quality issues, poor design and that some of the transformers, even after repeated repairs by the suppliers, could not be reused on economical and technical grounds. Hence, the Chief Engineers requested sanction for officially decommissioning these faulty transformers and to survey report them.

Further it was reported that, in the case of transformers manufactured by M/s RIMA, M/s Accurate Transformer Limited, M/s ECE Industries and M/s Bharath Bijlee, which had failed prematurely, even though the field officers tried to get the transformers repaired by the suppliers, the attempt was unsuccessful as these manufacturers are either not in business now or did not respond to our repeated requests.

Hence, it was suggested that, those manufacturers, who did not respond to the requests for rectification of defects in the prematurely failed transformers, shall be black listed from future

tenders. Further, the tendering procedures shall be made more effective with accurate specifications, vigorous pre qualification criteria and stringent quality control, especially while purchasing costly equipment like transformers.

The matter was placed before the Full Time Directors as per note read above for decision.

Having considered the matter in detail, the Full Time Directors in the meeting held on 17.5.2022, resolved to accord sanction for decommissioning and survey reporting the following power transformers that became prematurely faulty and could not be repaired due to technical and economic reasons and are lying idle at various substations, subject to the condition that reusable items, if any, shall be salvaged and kept as spare for use in other transformers.

Sl. No	Circle	Substation	Capacity	Make	Year of Mnfg.	Serial No.
1	Thiruvananthapuram	110kV Substation, Paruthippara	20 MVA, 110/11 kV	RIMA	2011	1613/5
2	Thiruvananthapuram	110kV Substation, Paruthippara	20 MVA, 110/11 kV	RIMA	2011	1613/4
3	Thiruvananthapuram	110 kV Substation, Thirumala	20 MVA, 110/11 kV	RIMA	2011	1613/2
4	Malappuram	110 kV Substation, Kuttippuram	16 MVA, 110/33 kV	TELK	2001	120431-21
5	Thiruvananthapuram	110 kV, Substation Ollur	12.5 MVA, 110/11 kV	Indotech	2011	IT-45579
6	Thrissur	110 kV Substation, Kodakara	12.5 MV A, 110/11 kV	Indotech	2007	IT-41405
7	Kalamassery	110 kV Substation, Edayar	12.5 MV A, 110/11 kV	Crompton Greaves	2000	M2900
8	Kozhikode	66 kV Substation, Kuthumunda	10 MVA, 66/11 kV	Transformers and Rectifiers (India) Ltd	2000	0668
9	Malappuram	110 kV, Substation, Chelari	5 MVA, 33/11 kV	Kirloskar	2002	01PSG003/3

10	Kottarakkara	33KV, Substation, Chengamanad	5 MVA, 35/11 kV	Accurate Transformer Limited	2004	36/11
11	Thodupuzha	33 kV Substation, Vannappuram	5 MVA, 33/11 kV	ECE Industries	2011	H-78811

Further resolved to direct the Chief Engineer (SCM) to blacklist with reasons these manufacturers, who did not respond to the request for rectification of defects in the transformers which have failed prematurely, even if guarantee warranty period is over.

Orders are issued accordingly.

By Order of the Full Time Directors,

Sd/-

LEKHA.G

Company Secretary (In-Charge)

To : 1. The Chief Engineer (Transmission North)
2. The Chief Engineer (Transmission South)
3. The Chief Engineer (SCM)

Copy to: The Deputy Chief Engineer, Transmission Circle, Thiruvananthapuram, Kottarakkara, Kalamassery, Thodupuzha, Thrisur, Kozhikode, Malappuram,
The Financial Adviser/ The Chief Internal Auditor/ The Company Secretary
The TA to: CMD/ D(T&SO)/D(D&IT)/ D(G-C)/ D(G-E),D(P,S&SCM),D(REES,S,S&W), PA to D(F)
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Assistant Engineer