



KERALA STATE ELECTRICITY BOARD Ltd

(Incorporated under the Companies Act, 1956)

Registered Office: Vidyuthi Bhavanam, Pattom,

Thiruvananthapuram – 695 004

CIN: U40100KL2011SGC027424

Website: www.kseb.in

Phone: (O) +91 471 2514522

Email: dgekseb@kseb.in

ABSTRACT

Blending of fuels for operation of diesel plants at KDPP/BDPP - Request for Research Assistance - Detailed Proposal furnished by the Government College of Engineering, Trivandrum - Sanctioned - Orders issued.

SBU/G-E

BO (FTD)No.600/2022(DGE/G1/General/Biogas/2022-23)

Thiruvananthapuram,Dated: 12.07.2022

- Read: 1. Note No.CMD/106/BDPP/2022 dated 25.05.2022 of the Chairman & Managing Director, KSEBL.
2. Letter No.ITC&SR No.368-22/23 dated 15.06.2022 of the Principal,Government College of Engineering, Trivandrum.
3. Note No.DGE/G1/General/Biogas/2022-23/103 dated 16.06.2022 of the Director (Generation-Electrical) to the Full Time Directors.
4. Minutes of the meeting convened by the Chairman & Managing Director on 28.06.2022.
5. Letter No.ITC&SR No.368-22/23 dated 01.07.2022 of the Principal, Government College of Engineering, Trivandrum.
6. Note No.DGE/G1/General/Biogas/2022-23 (1) dated 04.07.2022 of the Director (Generation-Electrical) to the Full Time Directors.(Agenda No 21/07/22)

ORDER

The Chairman & Managing Director as per the Note read as 1st above has directed to explore the feasibility of running the machines at KDPP/BDPP using blending of fuel (LDO/LSHS) with Methanol/Ethanol as advised by the expert Institutions/NITI Ayog. It was also directed to furnish a report on the evaluation of the economic viability/advantage of the optimum composition. Subsequent to this, a preliminary discussion was held with the faculty of the Department of Mechanical Engineering, Government College of Engineering, Trivandrum by the team of engineers from KSEBL on the various aspects of blending of fuel viz. fuel to be blended, proportion, method of blending etc for operating the machines at KDPP/BDPP.

Based on the decisions arrived in the above meeting, the Principal, Government College of Engineering, Trivandrum as per letter read as 2nd above, has furnished a detailed proposal including the work methodology and Research Plan on the blending of diesel with methanol/biodiesel and to evaluate the optimum composition i) to evaluate the optimum percentage of methanol in Diesel and evaluate its fuel properties ii) to blend biofuels developed from edible, non-edible vegetable oils and waste cooking oils with Diesel and evaluate its fuel properties.It was also informed that the total project cost estimated for conducting the research study is approximately ₹48,74,445/-(including 18% GST) with a period of study of 12 months.The above proposal was placed before the Full Time Directors as per Note read as 3rd above for approval but deferred for resubmission after presentation by CET.

Subsequently, an outlay of the proposal was presented on 28.06.2022 by the faculty team of CET in the presence of the Chairman & Managing Director and other available Directors. During the subsequent discussions held thereafter, the Chairman has proposed the faculty members

available there since testing is proposed to be done on a single cylinder only. The faculty team agreed to this. The team has also agreed to furnish the split up details of the estimate at the earliest. The Chairman has also suggested the Deputy Chief Engineer (PED) with full powers of the Chief Engineer to invite exploratory open tender for the purchase of distilled methanol with quantity approximately 10% of the diesel consumption of last year for arriving the market rate. Accordingly as per letter read as 5th above the Principal, College of Engineering, Trivandrum has submitted the split up details of the offer amount in the proposal. The total financial commitment involved for study is estimated to be ₹48,74,445/- with duration of 12 months and advance payment in various stages.

The matter was placed before the Full Time Directors as per Note read as 6th above for a decision.

The Full Time Directors meeting held on 07.07.2022 resolved to accept the detailed proposal submitted by the Principal, Government College of Engineering, Trivandrum for feasibility study of blending diesel with methanol/biodiesel with financial commitment of ₹48,74,445/- to be paid in advance in various stages. Further resolved to authorize the Deputy Chief Engineer, PED with full powers of Chief Engineer to issue work order and execute the agreement in stamp paper worth ₹200/- without Performance Security.

Orders are issued accordingly.

**By Order of the
Full Time Directors**

Sd/-
LEKHA G
Company Secretary

To:

The Chief Engineer (Generation), Moolamattom.
The Deputy Chief Engineer (PED) with full powers of the Chief Engineer.
The Deputy Chief Engineer, Generation Circle, Thrissur.
The Deputy Chief Engineer, Generation Circle, Kozhikode

Copy to: The Financial Advisor/ Chief Internal Auditor/ Company Secretary
The Deputy Chief Engineer (IT)/RCAO/RAO
The TA to {Chairman & MD/ Director (GE) / Director (GC) / Director (Trans.& SO,
Planning & Safety)/ Director (D&SCM) /Director (REES, Soura, Nilaavu, Sports &
Welfare)}
The PA to Director (Finance/IT/HRM)
The CA to Secretary (Administration)
Stock File.

Forwarded / By Order

Geetha G. Anu
Assistant Executive Engineer