



KERALA STATE ELECTRICITY BOARD LIMITED

(Incorporated under the Companies Act, 1956)

CIN:U40100KL2011SGC027424

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ABSTRACT

Pallivasal Augmentation Scheme – Phase-I(100MU) -Conducting balance survey work for the remaining portion of land - Sanctioned- Orders issued.

CORPORATE OFFICE (SBU-G/C)

BO(FTD)No.525/2020 (DGC/AEE II/PAS/2019)Thiruvananthapuram, dtd.17.08.2020

Read: -1. B.O (FTD) No.147/2019 (DGC/AEE II/PAS/2019) dated 19.02.2019.

2. Note No.CE(C- I&CC)/PAS/2019-20 dated 16.05.2019,14.10.2019 and 26.06.2020 of the Chief Engineer(Civil-I&CC)

3. Note No.DGC/AEE II/PAS/2019 dated 24.07.2020 of the Director(Generation - Civil) (Agenda Item No. 5/8/20)

ORDER

A proposal of Pallivasal Augmentation Scheme for augmenting the RA, Headworks, for additional power generation at the existing Pallivasal Power House and various cascading Power Houses upto Lower Periyar was submitted by the Chief Engineer (Civil- I&CC) and KSEBL as per order read as 1st above has accorded sanction to proceed with the work of photogrammetric survey with drones for Pallivasal Augmentation Scheme (Phase-I) using departmental equipment.

The Chief Engineer (C-I&CC) as per note dated 16.05.2019 read as 2nd above has reported that, the Unmanned Aerial Vehicle(UAV) based LIDAR/ photogrammetry mapping is a highly expertise required job involving drone flight control, establishing Differential Global Positioning System(DGPS) ground control points and post processing of preliminary data through proprietary software programs. Further, it is reported that the aerial mapping and data processing training to KSEBL Engineers as part of purchase agreement of drone is not yet done . The Government of India had also enacted some regulations in using Drones of large payload such as Unique Identification Number and approved flight operator etc. Hence the new drone licensing process is a tedious process. At present, there are no expert Engineers in KSEBL for aerial mapping, data pre-processing etc. and therefore directions/assistance from the supplier is necessary for operating the departmental Drone.

The Chief Engineer (C-I&CC) as per note dated 14.10.2019 has also informed that, the field survey work of Grahams land dam site using the conventional total station instrument has been started by KSEBL field team and almost completed. The remaining portion of the survey includes topographical survey for assessment of various features of reservoir area such as number of dwelling units, extent of tea plantation, length of road to be replaced, storage capacity of reservoir etc. The land comprises of abandoned tea plantation and thick jungle which makes the area inaccessible and hence topographical survey using departmental total station is not possible. It is

further opined that, since the data processing training to the KSEBL Engineers as part of Purchase Order condition is getting delayed, the service of an expert agency using the technology of photogrammetric survey with their own Drones be utilized for the purpose, the cost for conducting the photogrammetric survey of the remaining part of the land comes to Rs.5 lakh approximately. In response, the Chief Engineer (C-I&CC) was directed to give a formal request to the Chief Engineer(Transmission South) to get the survey conducted with the drone available with the Transmission Wing and the Chief Engineer(Transmission South) was directed to explore the possibility of using the drone for the survey after examining the scope of activities and function to be performed by the drone .

The Chief Engineer(C-I&CC) as per letter dated 26.06.2020 has reported that even after an elapse of several months, no tangible result is forthcoming on the matter and the survey work is still pending indefinitely. Hence it has been requested sanction to conduct survey work using appropriate method by inviting tenders/quotations so as to complete the subject work without further delay.

The matter was placed before the Full Time Directors as per note read as 3rd above. Having considered the matter in detail, the Full Time Directors in the meeting held on 12.08.2020 resolved to accord sanction to the Chief Engineer(C-I&CC) to conduct survey work for Pallivasal Augmentation Scheme for the remaining portion of land using appropriate method by inviting tenders/quotations so as to complete the same without further delay.

The Chief Engineer(Civil-I&CC)) shall take further necessary action.

Orders are issued accordingly.

By Order of the Full Time Directors

Sd/-

Lekha .G

Company Secretary i/c

To

The Chief Engineer(Civil -I&CC))

Copy to:

1. The Financial Adviser
2. The Chief Internal Auditor
3. The RCAO/RAO
4. The Deputy Chief Engineer(IT)
5. TA to CMD /TA to Dir(GC) /Dir(GE&SCM) /Dir(T&SO) / Dir(D&HRM)/Dir(Plg&S)
6. PA to Dir (F) / Company Secretary i/c
7. FC Supt/ Librarian
8. Stock file / File

Forwarded / By Order



Assistant Executive Engineer