



KERALA STATE ELECTRICITY BOARD LIMITED

(Incorporated under the Companies Act, 1956)

CIN:U40100KL2011SGC027424

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Abstract

Pallivasal Hydro Electric Scheme (37.5MW) - Extending 1600 mm dia Penstock from Anchor Block A9 of PES to the existing Pallivasal Power House - Revised Administrative Sanction – Accorded- Orders issued.

Corporate Office(SBU-G/C)

BO(DB)No.690/2020(DGC/AEEV/Pallivasal/Ext pipe /2020) TVPM dtd:10.11.2020

- Read:
1. BO(FB) No. 817/2013(GPC5(C)/6/2012) dated: 08.04.2013.
 2. Note No. DB 30/CCM/PES – Balance civil works/2020-21/321 dated 21.08.2020 of the Deputy Chief Engineer & Project Manager, PES with full powers of Chief Engineer.
 3. Remarks No. FA/Tender-1/42/2020 dated 6.8.2020 of the Financial Adviser.
 4. Note No. DGC/AEEV/Pallivasal/Ext pipe /2020 dated 30.09.2020 of the Chairman & Managing Director
 5. Proceedings of the 55th meeting of the Board of Directors held on 14.10.2020((Agenda 18-10/2020).

ORDER

The Pallivasal Power Station is the oldest Power Station in operation in Kerala. This scheme has storages at Kundala, Madupetty and a diversion weir called R.A. Head works at Munnar, a water conductor system and a surface power station with an installed capacity of 37.5MW. The R.A Head works of the existing Pallivasal Scheme often spills during the monsoon due to low storage capacity of the reservoir. Due to limitations in the carrying capacity of the existing water conductor system, there is no scope for further upgradation. For the effective utilization of available water at R.A Headworks, Pallivasal Extension Scheme is now being implemented.

The extension scheme envisages diversion of water from R.A Head works through a new approach channel, new power tunnel of diameter 3.5m, Surge Shaft, Pressure Shaft cum high pressure tunnel, 2 Penstocks, one with dia 1600mm to feed the existing Power House and the other of diameter 2000 mm to feed the new Power House having an installed capacity of 60MW. After commissioning of the extension scheme, the existing water conductor system of the old Pallivasal Project is proposed to be dismantled or to be put into alternate uses as it has become very old and its renovation is not cost effective.

Laying of 1600mm dia Penstock from the valve house at Meencut up to the anchor block A9 from where it diverges to the old Power House was also done along with the 2000mm dia penstock leading to Pallivasal Extension Scheme (PES). The work of laying the

remaining 1600mm dia penstock from A9 to the existing Power House is to be executed by arranging as a separate work.

KSEBL as per B.O read as 1st above has accorded Administrative Sanction for an amount of Rs.45 Crores for the work of extending 1600mm dia penstock pipe from Anchor block A9 of PES to the existing Pallivasal Power House based on the tentative estimate submitted by the Project Manager, Pallivasal Extension Scheme.

The Deputy Chief Engineer & Project Manager PES with full powers of Chief Engineer as per note read as 2nd above has reported that a revised estimate for extending 1600 mm dia Penstock pipe from Anchor block A9 of PES to the existing Pallivasal Power House amounting to Rs.47,67,20,000/- including 18% GST of Rs.7,27,20,000/- has been prepared for inviting tenders.

The work includes penstock track formation, construction of the anchor blocks and rocker support foundations, design, fabrication, supply and erection of penstock pipes of different thickness, five bifurcation pieces to feed the 6 machines in the existing power house etc. The estimate is prepared based on KSEBL Data, Sanctioned Data (PES-Balance work & Weir and outlet pipe) and DSR2016 with current cost index of Munnar @ 149.69 %. The estimate is prepared based on the available typical design drawings and alignment drawings issued from the design wing of KSEBL. For Penstock mechanical works, data is prepared based on KSEBL data book.

The remarks of the Financial Adviser read as 3rd above was also obtained. The Deputy Chief Engineer & Project Manager PES has furnished counter remarks to the remarks of Financial Adviser.

The Deputy Chief Engineer & Project Manager of PES with full powers of Chief Engineer requested Revised Administrative Sanction for the subject work for an amount of **Rs.47,67,20,000/-** including 18% GST of Rs.7,27,20,000/-.

The matter was considered by the Full Time Directors in the meeting held on 25.09.2020 (Agenda 36/9/20) and it was resolved to place the matter before Board of Directors of KSEBL. Accordingly the proposal was placed before the 55th meeting of the Board of Directors held on 14.10.2020 as per note read as 4th paper above.

The proposal seeking approval for the revised Administrative Sanction of Rs 47.67 Crore for extending 1600 mm dia Penstock pipe from Anchor block A9 of PES to the existing Pallivasal Power House was discussed in detail. The Director(Generation Civil) stated that the Administrative Sanction for the work for an amount of Rs 45 Crore had been accorded in 2013 based on the tentative estimate. It was reported that the penstock pipes of Pallivasal HEP is about 80 years old and is already due for replacement. The Board was also appraised that due to the deteriorations of penstock, Machine I & II at Pallivasal HEP is under shut down. The Additional Chief Secretary (Finance) observed that detailed estimates shall be prepared in PRICE software before issuing Technical Sanction and also noted that the Technical Sanction Authority should review the cost of cement and rubble in the estimate. After discussion and considering the urgency of carrying out the work, the Board

RESOLVED TO accord Revised Administrative Sanction for the work of Pallivasal Hydro Electric Scheme - Extending 1600 mm dia Penstock from Anchor Block A9 of Pallivasal Extension Scheme to the existing Pallivasal Power House for an amount of **Rs.47,67,20,000/-** (Rupees Forty Seven Crore Sixty Seven Lakh and Twenty Thousand only) including 18% GST of Rs.7,27,20,000/- (Rupees Seven Crore Twenty Seven Lakh and Twenty Thousand only) subject to the following conditions.

1. Detailed estimates shall be prepared based on PRICE software in compliance of stipulations in G.O.(P) No.8/2018/Fin dated 15.01.2018 before issuing Technical Sanction.
2. Technical Sanction authority shall review the necessity of allowing excess cost of cement as per mix design as the work shall be tendered on item rate basis only as per prevailing Government rules.
3. The provision for using department rubble @50% only is not justifiable as the rubble is already reported to be available at dump yard. Realistic assessment of departmental rubble shall be incorporated in the estimate by the Technical Sanction authority.

Orders are issued accordingly.

The Deputy Chief Engineer & Project Manager (PES) with full powers of Chief Engineer, Pallivasal Extension Scheme shall take further necessary action in this regard.

By Order of the Director Board,

Sd/-

LEKHA G.

COMPANY SECRETARY IN CHARGE

To

The Deputy Chief Engineer & Project Manager (PES) with F/P of Chief Engineer, Pallivasal Extension Scheme.

Copy to:

The Chief Internal Auditor/ Financial Adviser

The Chief Engineer (IT)

The RCAO/The RAO

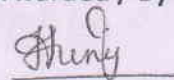
The TA to CMD/Director(GC)/Director(D,IT&HRM)/ Director(T&SO)/Director (CP&S)/ Director (GE&SCM)

The PA to Director (Finance) /Company Secretary

The Legal Liaison Officer, KSE Board Ltd., Kochi

Library/Stock File

Forwarded / By Order



Assistant Executive Engineer