

**KERALA STATE ELECTRICITY BOARD Ltd**

(Incorporated under the Companies Act, 1956)

Registered Office: Vidyuthi Bhavanam, Pattom, Thiruvananthapuram – 695
004

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ABSTRACT

IHEP-Restoration of Generator Unit -1 at Idukki HEP - Manufacture and supply of stator coil top bars, rotor pole re insulation, Pole lead replacement and related works -additional works - Sanctioned - Orders issued.

Corporate Office SBU- G/EB.O. (FTD) No. 83/2024 (DGE/G3/IHEP Unit-1 revival)
Thiruvananthapuram.

Dated:23-02-2024

Read : 1. B.O. (FTD) No.593/2023 (DIR/GE/23/2023-AEE 2/IHEP dated 30.12.2023.

2. Letter No.CEG/AEE1/Idukki/Unit-1 revival/23-24/1183 dated 03.02.2024 of the CEG and the estimate.
3. Letter No.CEG/AEE1/Idukki/Unit-1 revival/23-24/1183 dated 03.02.2024 of the CEG and the revised estimate.
4. Note No.DGE/G3/IHEP U1 revival/23-24 dated 08.02.2024 of the Director (GE,RSS&W) submitted to FTD (Agenda No.23-02/2024).

ORDER

KSEBL as per B.O read as 1st above had accorded sanction for carrying out the works related with the revival of Unit-1 at IHEP and the work was awarded to M/s. CORAL Rewinding India Private Limited and the work was commenced on 03.01.2024 and the scheduled completion date as per the Work order is 19.02.2024.

Subsequent to the tripping of Unit -1 machine at Idukki HEP on 17.12.2023,the above order was issued based on the preliminary inspection and testing and the work identified was entrusted to M/s. CORAL Rewinding India Private Limited due to the extreme urgency of putting the machined back in service.

It is reported that after carrying out the dismantling of rotor poles and stator coils, thorough cleaning was carried out and various electrical tests specified in the work order to confirm the healthiness of balance rotor poles, stator coils and stator core were carried out. These tests were completed on 31.01.2024. Also the dismantled damaged stator coil bars were compared with the available spare stator coil bars for confirming the suitability for using in the machine and only 33 nos. were found suitable. Consequently following major works were found necessary for the complete restoration of the machine, in addition to the work already awarded and under execution.

- Complete re-insulation of 1 No rotor pole.
- Lead replacement of 10 Nos of rotor poles & flexible coil end termination replacement in 4 poles.
- Replacement of 7 Nos of stator top bars.
- Associated works in connection with the above items.
- Manufacturing & supply of 45 Nos of stator coil top bars.

On analysis of the test outcome it is confirmed that a total 71 nos top bars need replacement. Therefore 38 Nos of stator top bars are required to be procured for completing the work. Considering the requirement of 10% quantity as working spare, a total No of 45 stator coil top bars

are to be procured. Based on the above findings, the Chief Engineer (Generation) has submitted an estimate amounting to Rupees One Crore for carrying out the above additional works which are essential for the restoration of Unit -1 machine. The additional works are reported to be carried out by waiving the tender procedure due to the following reasons -

The power position is extremely vulnerable due to non approval of long term PPA and after invoking Sec 108 , subsequent to approval of PPAs , the GENCOs filing appeal and non resumption of power supply, adverse monsoon in 2023, adverse climate condition and increase demand. During summer anticipated increase and availability analysis warrants optimal power generation.

- The above referred works are inevitable for the restoration of the unit.
- Outage of 130 MW from the system during summer season will create extra financial burden on KSEBL and hence the unit has to be put back in to service as early as possible. The daily average generation of unit -1 for the months January, February and March at Idukki HEP is approximately 2MU.
- If we go for e-tendering for the procurement of stator top bars and for the execution of the newly identified works, it will take at least 45 days to award the work.
- M/s. Coral Rewinding India Private Limited is an experienced firm in stator and rotor related works and is entrusted with the rectification work of the unit at present. If the newly identified work is also awarded to M/s. Coral Rewinding India Private Limited, the time for e- tendering can be saved, which in turn save approximately 40 crore rupees to KSEBL. (Considering daily average generation of 2 MU and Rs.4.5/unit). Moreover since the work by M/s. Coral is progressing at site, they could complete the work in a lesser period.
- The offered date of completion of the entire work is 29.03.2024.

Further negotiation was done at Director level with M/s Coral for getting the rock bottom rate and they have offered the rock bottom rate. Accordingly, the estimate has been revised for an amount of Rs.99,00,000/-.

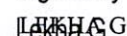
As the above additional works are inevitable for the restoration of 130 MW unit -1 at Idukki HEP and considering the urgency involved, it is recommended to award the works to M/s. Coral Rewinding India Private Limited at their offered rock bottom rate for an early restoration of the unit -1 at Idukki HEP. The matter has been placed before the Full Time Directors as per note read as 4th above.

Having considered the matter in detail and considering the exigency, the Full Time Directors resolved to accord sanction for an estimate amounting to Rs.99,00,000/- (Rupees Ninety Nine Lakh only) for the additional works identified in connection with the revival of Unit-1 machine at IHEP.

Further, resolved to award the subject works to M/s. Coral Rewinding India Private Limited at their offered rock bottom rate by waiving the tender procedure. Orders are issued accordingly.

By Order of the Full Time Directors

Signed by



COMPANY SECRETARY

Date: 23-02-2024 19:06:40

I/24517/2024

To:

The Chief Engineer (Generation) Moolamattom.

Copy to:

The Company Secretary/ Chief Engineer (IT,CR&CAPS)/ Financial Advisor/ LA&DEO/ Chief

Internal Auditor/ Chief Vigilance Officer

The Deputy Chief Engineer, Generation Circle, Moolamattom

The TA to the Chairman & Managing Director / Director (Generation-Civil) / Director

(Distribution, Safety, SCM & IT) / Director (Transmission, SO & Planning)/ Director (Generation -

Electrical, REES, SOURA, Sports & Welfare)

The PA to the Director (Finance & HRM)

The Sr.CA to the Secretary (Administration)

The RCAO/ RAO

Stock File.

Forwarded / By Order


Asst.Exe.Engineer