



KERALA STATE ELECTRICITY BOARD Ltd

(Incorporated under the Companies Act, 1956)

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ABSTRACT

Renovation and Modernization of Stage-1 units of Idukki (3X130MW) Hydro Electric Project - Resolving long pending issue related to the supply and erection of Hollow shaft motor and cooling water pump set - Sanctioned - Orders issued.

SBU-GE

BO (FTD)No.696/2022(No.11/AE5/2013/CE (PED)/ Hollow Shaft motor) Thiruvananthapuram,Dated: 11.08.2022

- Read: 1. Letter No.DB1/R&M/21-22/1747 dated 18.11.2021 of the Deputy Chief Engineer, Generation Circle, Moolamattom.
2. B.O. (FTD) No.80/2022 (DIRGE-AEE4/2022/255) dated 01.02.2022.
3. B.O. (FTD) No.267/2022 (DIRGE-AEE4/2022/406) dated 02.04.2022.
4. Note No.11/AE5/2013/CE (PED)/Hollow shaft motor dated 16.07.2022 of the Deputy Chief Engineer with Full Powers of Chief Engineer (PED).
5. Note No.11/AE5/2013/CE (PED)/Hollow shaft motor (1)/120 dated 21.07.2022 of the Director(Generation - Electrical) submitted to the Full Time Directors [Agenda item No. 9/8/22].

ORDER

The Deputy Chief Engineer (PED) with full powers of Chief Engineer as per the note read as 4th above reported that, the supply and erection of hollow shaft motor and cooling water pump is a long pending issue in the renovation and modernization work for Stage-1 units of Idukki Hydro Electric Project (3X130 MW) awarded to M/s. General Electric Power India limited (M/s. GEPIL). M/s.GEPIL has informed that the hollow shaft motor as per the standard IS 325-1970 mentioned in the contract is not being manufactured now. M/s. GEPIL informed that the hollow shaft motor available in market is as per a higher standard - ie, NEMA. M/s. GEPIL has requested either to drop the item from the schedule or issue additional order with price escalation for supply of item with higher standard. The Deputy Chief Engineer, Generation Circle, Moolamattom, as per the letter read as 1st above has informed that IS:325-1970 is obsolete from 06.03.2014 and hence no manufacturer is making the hollow shaft motor with this standard. It is also stated that solid shaft motor cannot be considered as it is a deviation from the Technical specification from the contract agreement.

Having considered the points as above, the Chief Engineer (Generation & PED) requested to take necessary action to delete the items 57- (supply of one number 3 stage vertical turbine pump set...) and 58 - (supply of one number 450 HP, 3.3 KV, 3 Phase, 1000 rpm hollow shaft squirrel cage induction motor...) from the schedule of supply in Purchase order No.02A/2016-17 dated 22.09.2016. and items 39 (Dismantling one of the existing 450 HP cooling water hollow shaft motor...) and 40 (Dismantling one

of the existing cooling water pump ...) of work order No.2B/2016-17 dated 23.09.2016 of Chief Engineer (PED) without any financial implications to KSEBL. The total unit rate of items 57 and 58 of Purchase order No.02A/2016-17 dated 22.09.2016 are ₹23,87,920/- and ₹19,10,337/- respectively. The total unit price of items 39 and 40 of work order No.2B/2016-17 dated 23.09.2016 are ₹2,47,927/- and ₹3,09,908/- respectively. The total amount for supply of spare pump and motor comes ₹42,98,257/-. The total amount of work for the same comes to ₹5,57,835/-. Thus the total amount including supply and works comes to ₹48,56,092/-.

As per B.O. read as 2nd above an online Meeting was conducted on 23.02.2022 by the Director (Finance), the Director (Generation-Electrical) and the Director (Transmission & SO) with M/s. GEPIL officials. It was decided that if M/s. GEPIL is not able to supply the item, KSEBL will proceed as per tender conditions including invitation of offer/tender for supply of concerned item at the risk and cost of contractor. As per B.O. read as 3rd above it was decided to invite the tender for the supply of one number 3 stage vertical turbine pump with 1000 rpm hollow shaft squirrel cage induction motor pump set in accordance with the detailed specification given under section 14 Volume-III of the original bid document at the risk and cost of M/s. GEPIL. The tender was invited and no bidders participated. On re-tender, M/s. Jyothi Ltd. informed their willingness to supply vertical solid shaft type motor instead of vertical hollow shaft motor because no manufacturer in India manufactures HT type hollow shaft motor. No bidders had participated in the tender for the second time also.

The Deputy Chief Engineer (PED) with full powers of Chief Engineer reported that from the above two tendering processes, they were not able to finalize supply of the items under subject mentioned due to its non-availability in the market as per the standard mentioned in the original contract conditions of R&M of stage-1 units of Idukki HEP. Considering the above, it was recommended by the Deputy Chief Engineer (PED) with full Powers of Chief Engineer that the items - Hollow shaft motor and pump shall be deleted from the schedule of supply and work order without the risk and cost of contractor. ie to delete the items 57- (Supply of one number 3 stage vertical turbine pump set....) and 58 - (Supply of one number 450 HP, 3.3 kV, 3 Phase, 1000 rpm hollow shaft squirrel cage induction motor.....) from the schedule of supply in Purchase order No.02A/2016-17 dated 22.09.2016 and the items 39 (Dismantling one of the existing 450 HP cooling water hollow shaft motor....) and 40 (Dismantling one of the existing cooling water pump ...) from the schedule of work order No.2B/2016-17 dated 23.09.2016 of the Chief Engineer (PED) and a new tender for supply of one number 3 stage vertical turbine pump set and supply of one number 450 HP, 3.3 kV, 3 Phase, 1000 rpm hollow shaft squirrel cage induction motor for 6000 USGM pump set with revised Technical specification in line with latest standard NEMA and IEC 60034-1 applicable for this item has to be invited as spare cooling water pump set for the R&M work for the stage-1 units of Idukki (1x130MW) HEP. Considering all the above it is recommended to accept the above proposal.

The matter was placed before the Full Time Directors as per note read as 5th above.

Having considered the matter in detail, the Full Time Directors in the meeting held

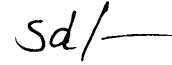
on 01.08.2022.

Resolved to accord sanction to delete items 57 (Supply of one number 3 stage vertical turbine pump set....) and 58 (Supply of one number 450 HP, 3.3 kV, 3 Phase, 1000 rpm hollow shaft squirrel cage induction motor.....) of the schedule of supply in Purchase order No.02A/2016-17 dated 22.09.2016 and items 39 (Dismantling one of the existing 450 HP cooling water hollow shaft motor....) and 40 (Dismantling one of the existing cooling water pump) of work order No.2B/2016-17 dated 23.09.2016 of Chief Engineer (PED) without the risk and cost of contractor.

Further resolved to invite tender for supply of one number 3 stage vertical turbine pump set and supply of one number 450 HP, 3.3 kV 3 Phase, 1000 rpm hollow shaft squirrel cage induction motor for 6000 USGM pump set with revised Technical specification in line with latest standard NEMA and IEC 60034-1 applicable for this item invited as spare cooling water pump set for the R&M work of stage 1 units of Idukki (1x130MW) HEP.

Orders are issued accordingly.

**By Order of the
Full Time Directors**



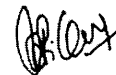
**LEKHA G
Company Secretary**

To:

The Deputy Chief Engineer (PED) with Full Powers of Chief Engineer, Vyduthi Bhavanam, Thiruvananthapuram.

Copy to: The Financial Advisor/ Chief Internal Auditor/ Company Secretary/ Chief Engineer (IT)/ Chief Engineer (HRM)
The TA to CMD/D(GE)/ D (GC)/D (T,SO, P&S) /D(D, SCM&IT)/ D(REES,S,S&W)
The PA to the D (F&HRM)
The CA to Secretary (Administration)
The RCAO/ RAO
Stock File.

Forwarded / By Order



Assistant Executive Engineer