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MINUTES OF THE MEETING OF THE EXPENDITURE FINANCE COMMITTEE (E.F.C.) HELD IN THE CONFERENCE ROOM OF THE CHIEF SECRETARY ON 13th July 2018.

A meeting of the Expenditure Finance Committee was held in the Conference Room of the Chief Secretary on 13/07/2018.

The following members were present for the meeting:

1.	Shri. Dharmendra Sharma Chief Secretary	Chairman
2.	Shri. W. V. R. Murthy Link Secretary (Finance)	Member
3.	Shri. Michael M. D'Souza Addl. Secretary (Fin-Exp)	Member
4.	Nila Mohanan Secretary (Power)	Member
4.	Smt. Isha Khosla Special Secretary (Budget)	Member
5.	Shri. N. N. Reddy Chief Electrical Engineer	Member

The following tender was deliberated on;

1. ***Proposal for replacement of existing ACSR Wolf conductor with ACCC HTLS Casablanca conductor with CTC core for 110KV circuits from 220KV Ponda Sub-Station to 110KV Verna Sub-Station & 220KV Xeldem Sub-Station to 110KV Verna Sub-Station alongwith re-conductoring of 110KV busbars at Verna, Ponda and Xeldem substations. (Estimated Cost ₹.55.617 Crores).***

The existing 110KV lines connecting Ponda – Xeldem – Verna EHV substations are presently fully loaded; loading beyond the rated capacity results in overheating of conductors thereby ultimately snapping of conductors and interruptions to power supply in the areas. In the present situation, in order to maintain stability in the power supply to the areas being fed by these substations, the Department has imposed load shedding on daily basis during the day from 10 am to 12:30 noon and from 2:30 to 4:30 pm, managing to exclude around 4 MW from the system compulsorily hence, limiting the loading on the

feeders within the tolerance limits. The Verna Substation supplies power to the Verna Industrial Estate, MPT, Airport Vasco, Sancoale Industrial Estate, etc. The industrial Estates are mostly affected in this load management and it is imperative that a stable and quality power supply be provided to the Industrial Estates at all times for the growth of Industries in the area.

The Verna Substation is having a transformation capacity of 130 MW (2x40 MVA + 1 x 50 MVA) out of which 28 MVA un-utilized due to the limitation to draw current on the aged conductor.

The Department proposes to replace the existing aged (wolf) conductor with a new conductor "Casablanca" which is having a rated current capacity of 1000Amps at normal temperature and in turn would make provision to fully utilize the transformation capacity at Verna Substation. In addition, the load shedding imposition will be lifted and the Industrial Estates would be provided with quality and stable and continuous power supply. There would also be increase in revenue due to stable power supply provided in the area.

The area concerned has a power demand growth to the extent of 6% (on average) per year as taken from the actual figures obtained from the peak loadings recorded on the substations for the years 2013 to 2018. There is also a sanctioned load to the extent of 20 MW awaiting for release due to the present loading constraints on the 110 KV line.

A similar action, due to repeated snapping of conductors and interruptions at the Kadamba Substation was taken a year ago and after replacement of conductor to "Casablanca", the network is now providing stable power supply to the entire area with provision to support additional future load demand. The "Casablanca" conductor was successfully used for replacing the existing conductor for the link line from Ponda to the Kabamba Substation where similar issues of overloading of conductors and snapping of lines and constant interruptions to the Panaji City and surrounding areas are overridden followed by providing stable and quality power supply.

The department has made a study based on the present frequency of load growth in the area which is around 6% per year, accordingly, a projected loading on the old and new conductor is calculated for a span of 15 years; annexed at Annexure I. It is seen from the calculations, that the new conductor is having a provision to cater to the growing load demand within the limits of its rated capacity for a 15 year period at ease.

The work will be carried out by competitive bidding/ turnkey project through e-tendering mode. The work will be completed within 12 months inclusive of monsoons from the date of placing of work order and completion of departmental formalities.

The source of funding and expenditure on this proposed project would be through internally generated funds under the Electricity Duty Fund.

It was explained regarding cost minimization and transmission losses that there will be considerable cost and transmission loss minimization due to sufficient capacity to cater the growing demand and stability in power supply. Besides that, there will be a considerable improvement in the quality of supply, improvement of voltage level, stability of power supply due to available capacity, load shedding / peak load restriction all lifted. All these qualities and benefits will result in generation of more revenue to the department.

The EFC committee members took the note of above facts and explanation/ justification as given by the Chief Electrical Engineer and agreed to confer approval to the proposal.

(N. N. Reddy)
Chief Electrical Engineer
Member

(Nila Mohanan)
Secretary (Power)
Member

(Smt Isha Khosla)
Special Secretary (Budget)
Member

(Micheal M D'Souza)
Additional Secretary (Fin-Exp)
Member

(W V R Murthy)
Link Secretary (Finance)
Member

(Dharmendra Sharma)
Chief Secretary
Chairman