



तेनुघाट विद्युत निगम लिमिटेड
(झारखण्ड सरकार का उपक्रम)
TENUGHAT VIDYUT NIGAM LTD.
(A Govt. of Jharkhand Undertaking)
CIN U40101JH1987SGC013153

मुख्यालय:

जुप्पी भवन परिसर, ए.बी.डी. एरिया,
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Head Quarter:

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पत्रांक/Ref. :

दिनांक/Date :

Brief on Extension Project (2 X 660 MW) of Tenughat Vidyut Nigam Limited

Tenughat Vidyut Nigam Ltd. An Introduction:-

Tenughat Vidyut Nigam Ltd. is only thermal power generation unit owned by the Jharkhand government having 2 X 210 MW installed capacity supplies its total generation to meet the power requirement of Jharkhand

It was established keeping in mind the needs of Bihar State Electricity Board and the northeastern states. In 1971, on the request of the Bihar government, the Central Water and Power Commission (CWPC) selected this land at the foot of Lugu hill near Tenughat reservoir in the then Giridih district, now in district- Bokaro. It is situated near coal mines.

At that time, the capacity of thermal power generation was estimated to be 2850 MW. It was suggested to complete its construction in two phases (1550 MW and 1300 MW). For the construction of the first phase (1550 MW), the acquisition of about 1800 acres of land was completed.

In the year 1987, Tenughat Project was separated from Bihar State Electricity Board and 'Tenughat Vidyut Nigam Limited' was formed under the Company Act 1956. The assets of the project were transferred to the new company. The headquarters of the nigam was located in the capital Patna in erstwhile Bihar.

In the year 1994, the first unit (210 MW) was synchronized on 14.04.1994 whereas in year 1996 the second unit was synchronized on 10.10.1996. Commercial production from the project started in the year 1996-97.

Since then both units of the project (2x210 MW) are in operation with financial profit near or above the national average for the last several years. The entire electricity produced by the nigam is supplied to the JBVNL at the rates determined by the Jharkhand State Electricity Regulatory Commission as per the Power Purchase Agreement (PPA). The coal required for power generation is being supplied by rail from CCL's coal mines.

Expansion of TVNL:-

Tenughat Vidyut Nigam Limited has full capacity for its expansion. It is equipped with all the necessary resources like land, water, fuel and skilled human resources. Desired flat land is available for construction of 2X660 MW units within the boundary wall controlled by CISF. There is adequate water (300 cusecs) from the Tenughat reservoir from the Water Resources Department of the State

Plant : Tenughat Thermal Power Station, Lalpania, Dist. : Bokaro - 829149 (Jharkhand)
Coal Mine Project : Kinamar, Opp. City Hospital, Main Road, Latehar, Pin-829206
Rajesh Ranjan
Elect. Suptd. Engineer
T.V.N.L. Ranchi

10 MAR 2025

Government. Rajbar E&D coal block has been allotted by the Central Government to fulfil the fuel requirement.

The Nigam has the required manpower with having an experience for operation of the units of the existing project (2x210 MW) at national performance level for many years and are competent to handle the expansion project,.

There is a speculation that gap will remain between the demand and supply of electricity in the coming years. This demand-supply gap is a golden opportunity for the expansion project of Tenughat Vidyut Nigam Limited.

It would be beneficial for state as well country to take advantage of the opportunity to utilise the resources available with TVNL for setting up 2X660 MW expansion units.

STATUS OF TVNL EXTENSION PROJECT (2 X 660 MW)

- GoJ accorded In-principle approval for setting up of 2x660 MW Extension Project, Stage-II at Tenughat Thermal Power station, Lalpania which was notified vide Resolution no-815, dated 18.03.2016 of Energy Department, GoJ.
- TVNL engaged M/s STEAG Energy Services (India) Pvt Ltd, Noida as a Consultant on 03.01.2017 for Consultancy Services for setting up of 2x660 MW Coal fired Super Critical units at Tenughat Thermal Power Station, Lalpania.
- Techno Economic Feasibility study was carried out at TTPS, Project site and Techno Economic Feasibility Report (TEFR) submitted on 15.07.2017.
- Topographical Survey of 1330 acres acquired land of TVNL at TTPS, Lalpania was done and its report submitted.
- Bathymetric Survey for water Intake study completed and report submitted.
- Work of Geotechnical Investigation completed by the consultant and its report also submitted.
- TVNL with the help of the Consultant filed FORM-1 for Environmental Clearance and the same was accepted in MoEF & CC. Agenda for Environmental Clearance was put up through Consultant before Expert Appraisal Committee (EAC) of MoEF, New Delhi on 26.10.2017. Due to non-compliance of some of the environmental issues of existing units, TVNL Extension Project was kept in abeyance by the MoEF & CC vide letter dated 05.03.2018. Hence, ToR has not been issued by MoEF & CC.
- Draft DPR was submitted by the Consultant. Technical part of the draft DPR was checked and reverted back to Consultant for final correction. Final DPR is yet to be submitted by the consultant.
- As per draft DPR dtd-11.02.2019, the estimated project cost including IDC (Interest during construction) was Rs. 9,543.00 Crore considering Debt Equity ratio as 70:30. The consultant has submitted the revised cost in Dec'2023 and it is Rs.11638.46 Crore.
- Revised application for ToR has been applied in "Parivesh Portal" of the MoEF&CC on 18.05.2024 for Environmental Clearance. EDS raised by MoEF&CC on 25.05.2024, 15.07.2024 & 05.09.2024 have been replied. However, MoEF&CC again raised an EDS on 11.11.2024 and the same is under process of reply.

Signature

Rajesh Ranjan
Elect. Suptd. Engineer
TVNL Ranchi
10 MAR 2025