

HANUMANGANGA SMALL HYDRO POWER PROJECT – 5 MW

Project Description:

The Hanuman Ganga Project was commissioned by Regency Aquaelectro & Motelresorts Private Limited in the year 2005 with a capacity of 3 MW, which further extended to 4.95 MW in the year 2009-10. The current directors of the company are Shri Rakesh Aggarwal and Shri Vijesh Vasudev having commercial office at 12 D Racecourse, Dehra Dun. The project was running satisfactorily from 2005 to 2012, the total loan on Hanuman Ganga 4.95 MW was 25 Cr with total cost of around 36 Cr at that time. The Tariff is announced from time to time, and since the project was commissioned for 3.0 MW in 2005 and additional 1.95 MW commissioned in 2009 - 10 the applicable tariff with an average of two shall be Rs 3.59 per unit. The calculation has been given on Page 1 of the Tariff (issued on 2017). The life of the PPA is 35 years effective from date of commissioning and thus 20 years are pending for Hanuman Ganga.

4.95 MW Hanuman Ganga Small Hydro Electric project (SHEP) which is being developed near Village Nisni near Intake & Hanuman Chatti near Powerhouse, Uttarkashi, Uttarakhand is proposed to harness the potential of Hanuman Ganga River, Upper reach of River Yamuna. The developer of the Project is Regency Aquaelectro & Motelresorts Private Limited.

Regency Aquaelectro & Motelresorts Private Limited entered into Implementation Agreement with Government of Uttaranchal on 07.05.1997 for the implementation of the Project with an aggregate capacity of 3 MW and the company again entered into an agreement dated 22nd December 2001 with Uttranchal Power Corporation Limited. The company requested to increase the capacity of the Project to 5MW, which was agreed by the Corporation. Subsequently, Power Purchase Agreement was executed on 03.01.2003 between Regency Aquaelectro & Motelresorts Private Limited & Uttarakhand Power Corporation Limited (Ltd.)

Optimum Installed Capacity of the Project

Following is the brief history of installed capacity of Hanuman Ganga Small Hydro Project:

- 1) IA was signed for 3 MW on 07.05.1997
- 2) Supplementary IA was signed for 4.95 MW on 22.12.2001
- 3) Power Purchase Agreement was signed by Regency Aquaelectro & Motelresorts Private Limited on 03.01.2003

Offtake arrangement:

The developer has a Power Purchase Agreement with UPCL which is A+ rated DISCOM as per Sixth Annual Integrated Ratings dated July 2018 issued by Ministry of Power (MoP), which means that the DISCOM has very high operational and financial performance capability. The residual life of the Project has been considered as 20 years as per PPA.

Statutory Approvals:

We have referred the records of the company at its Corporate Office and perused the following major Approvals. Our comments are also given against each such approval wherever necessary:

S. No	Clearance	Approving Authority	Approval Letter no.	Approval Date
1	Implementation Agreement	With Governor of Uttarakhand through Secretary, Department of Energy GOU	NA	7 th May 1997
2	PPA with Uttarakhand Power Corporation Ltd.	UPCL	NA	3 rd Jan 2003

SWOT Analysis

Strengths

- Qualified and experienced promoters
- Achieved PLF above 45% in the past.
- Well connected with motorable road up to Power House.
- Hanumanganga on which the project is located is a perennial tributary of River Yamuna, having fairly large catchment area of 21 kms.

Weakness

- Local grid system in the remote area of Uttarakhand where the project is situated and improvement being done by State Government UPCL.
- The extension-I project of 1.95 MW shall operate on optimum capacity as the work of connecting separate power pipe line with the water intake.
- Due to higher up locations, the units are time and again affected by floods for which extra precautionary strengthening of civil structure is proposed to make it safe.

Opportunities

- Small hydro projects provide a viable option to supply regular supply of electricity to the remote & hilly areas of Uttarakhand.
- Government is trying to establish an option to the developers for better realization in future.
- There is scope of augmentation of capacity including flow of water from Nishni river which the company is already targeting to.