



Energy efficient yet low maintenance Submerged VT pumps deliver consistent water at Jakham Headworks, UWSS - P.H.E.D., Pratapgarh, Rajasthan, India.

Predominantly, Rajasthan is an agrarian State, mostly dependent on monsoon and its duration is also very short. The average rainfall of the State is 580 mm. Rajasthan has only 1.16 percent surface water resources of the country. With short and erratic monsoon, Rajasthan is the most water deficient State in the country. The situation is more alarming in the drought years because State is dependent on groundwater, both for irrigation as well as for drinking water.

Jakham Dam is located in Pratapgarh District in Rajasthan in India. It is located in Anoopura village of Pratapgarh. The dam is a main irrigation project of the area. Irrigation facility is being provided in 118 villages in Dhariyawad sub-division.



JAKHAM HEADWORKS, UWSS



Project Data :

Name of Project : Jakham Headworks UWSS
Customer : Public Health Engineering Department (PHED), Rajasthan.

Pump sets Data :

AVT_V_SS_4st_BB_2042_M_M_0250_B_LT_NJ.
 Total two nos. of Vertical Submerged Centrifugal pumpsets (1W+1S) each of 250 hp having 252 m³/hr flow & 180 m head.

AQUA's economical solution :

Earlier department was using 10 to 12 Submersible & Borewell Vertical Turbine pumpsets of other companies, which were giving high maintenance. Within such condition and by using the same space AQUA pumps were the best & almost exclusive choice since it could be easily lowered to Intake. Also as being Submerged Centrifugal Vertical Turbine Pumps they were suitable for walking in hostile environment under rains, water splashing etc where in no other type of pumps were suited for direct installation.

Conclusion :

Application Engineering Capacities, proficiency in System Engineering and Teamwork lead to the accurate execution of the Jakham Headworks project. The innovative design and meticulous planning and execution by AQUA resulted in effective cost reduction. With lowest capital cost, high efficiency, high reliability, design simplicity; AQUA AVT pumps have proven their merit in this project. Over 1 lakh of populations of Pratapgarh district have benefitted from this project.



Performance Certificate



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No. EE/PHED/Ar. PGH/2016-17/ 5722

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To Whom So Ever It May Concern

This is to Certify that, for our Jakham Head Works UWSS, we are using 2 no's of "Aqua" make Submerged Vertical Turbine pump sets of following rating:

Model	: AVT_V_SS_4st_BB_2042_M_M_0250_B_LT_NJ
Head	: 180 m
Flow	: 252 m ³ /hr
Motor	: 250 hp/186kW
Voltage	: 415 V

These Pumpsets were commissioned in January-2016 and are working satisfactorily till date (the SITC work of these pump sets has been carried out by M/s Aqua Machineries Pvt.Ltd, Ahmedabad).

In our experience, these Aqua make Submerged VT pumps are very easy to operate, require almost no maintenance.

We strongly recommend the use of Aqua make Submerged VT pump sets as an Equally Energy Efficient yet more robust low maintenance alternative to VT pump sets.

Executive Engineer
 PHED.Dn-Pratapgarh