



The Rising Curve in Hydropower

YOUR GROWTH IS THE FOUNDATION OF OUR GROWTH.

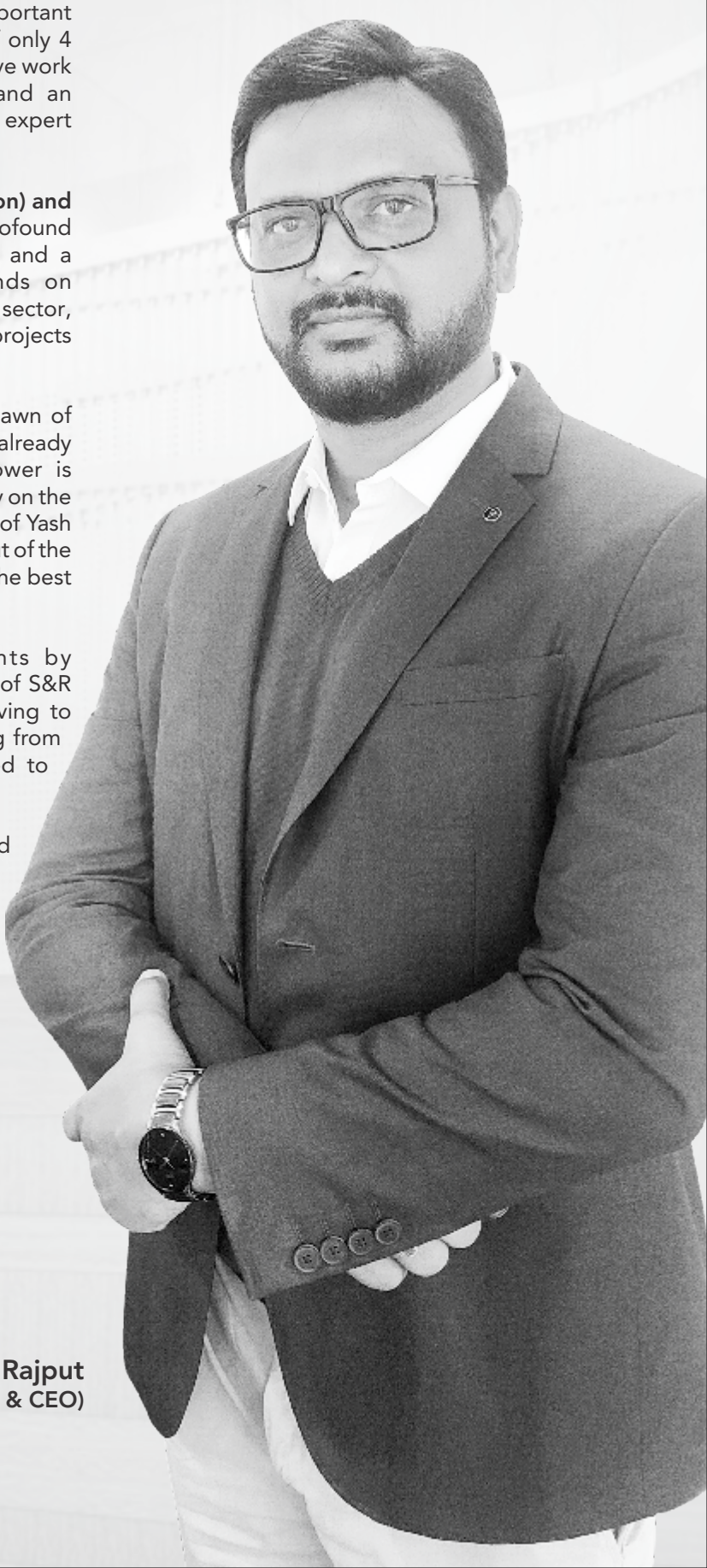
When an organisation is founded on principles of enriching lives and generating happiness, the resolute attitude towards challenges and odds becomes the major factor to achieve inspiring milestones, important landmarks and singular standards. In a span of only 4 years Yash Group has sown seeds of a progressive work culture, value added professional conduct and an experience driven by core competencies of expert professionals.

Co-founded by **Ms. Nandini Rajput (Chairperson)** and **Mr. Dinesh Rajput (MD & CEO)** with the profound vision to create an organisation with a heart and a compassionate mind. Mr. Rajput with hands on experience of more than 20 years in the hydro sector, has been on the helm of many landmarking projects with proven credence.

The hydropower industry has welcomed the dawn of Yash Group with open arms and it shows as it is already one of the fastest growing entity. Hydropower is Group's inherent strength and renewable energy on the whole is its domain. Every facet and dimension of Yash Group has been infused with the DNA to think out of the box for the the welfare of our environments to the best of our abilities.

Apart from delivering quality statements by manufacturing ace turbines or by serving best of S&R and EPC solutions, the Yash think tank is striving to create an innovative product showcase ranging from hydro to other renewable disciplines designed to empower India in enterprising ways.

The Group is absolutely confident and committed that we have set ourselves the ultimate mission to CREATE YASH INDIA! To have the courage and the insight to feel joyful fuels us up to keep marching forward by renewing victories everyday!



Dinesh Rajput
(Managing Director & CEO)



The Yash Tree

Yash Group is the new face of Eternity Group. It is a young organisation growing rapidly and emerging strongly on the horizons of renewable energy with proven credentials. Backed by a technical collaboration with a European company, Yash Group is fully equipped to undertake assignments of hydro power projects in all industry prescribed models. Group's in house manufacturing facility at Bhopal, Madhya Pradesh is proudly delivering quality turbines to a roster of clients in India and outside.

From turnkey projects to EPC contracts. From providing civil and design skills for hydro projects to handling critical S&R assignments with value added responsibility and commitment...Yash Group is renewing victories everyday. Inspired by the hydro growth, the group is venturing into Solar Power with equal sincerity and dedication.

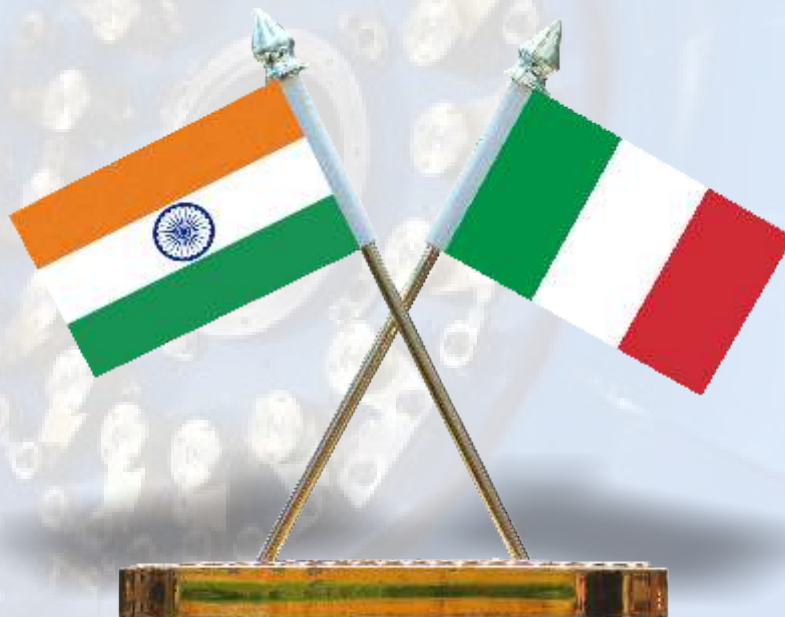
Yash Group has successfully integrated the dignity of all dimensions of the hydro power industry with eternal gratitude and is now focused to redefine the renewable energy domain with product innovations, energy saving ideas for a greener and healthier future for all.



Yash Schimmer is the manufacturing core of Yash Group with a mission is to become one of the most respected single window hydro solution providers around the world. Backed with precise expertise and proven technology coupled with execution excellence Yash Schimmer has the credence to deliver world class water to wire solutions.

As an organisation, we are a full line supplier of Electromechanical Equipment & Services for Small & Medium Hydropower Projects and aftermarket service for the existing power plants.

We provide Turnkey Hydropower Solutions – with cohesive integration of design, manufacturing, execution and service support. With our incessant focus on quality and total customer satisfaction, we have set new benchmarks in 'implementation finesse' that have translated into sustainable benefits for our customers.



Yash Schimmer has exclusive tie-ups with Italian companies to offer European excellence by manufacturing in-house major critical components like turbines, runners, valves, governors etc. These strategic joint ventures gives Yash Group the world class design and technological advantage in small and medium hydro power plants. Topped with Indian business insights, operational advantages and customised deliverables packaged at value added pricing.

CONCEPT TO COMMISSIONING EXPERTISE

CUSTOM BUILT SOLUTION

Dedicated customized solutions based on specific requirement

MANUFACTURING "MIGHT"

State of the art manufacturing facilities coupled with stringent quality control meeting international standards

ON-FIELD SUPPORT

Services to ensure reliability, efficient operation and long term healthiness of plant.

DESIGN & ENGINEERING

Backed by proven technologies from leading European partners for providing water to wire solutions.

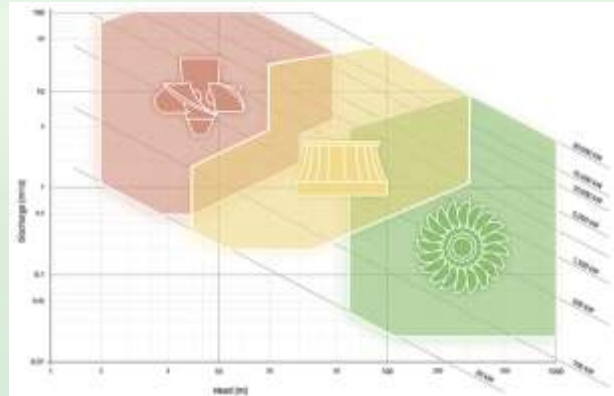
EXECUTION EXCELLENCE

State-of-the-art manufacturing facilities coupled with stringent quality control meeting international standards



PRODUCT OVERVIEW

Yash Schimmer has the expertise to offer complete range of Hydro-turbines packages (Pelton, Francis, Kaplan, Axial flow units) upto head range of 1,000 meter and with discharge of 100 m³/sec. These turbines are designed for efficient & high performance with long term serviceability support.



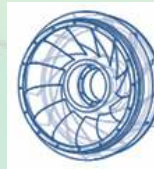
PRODUCT PROFILE

- Water to Wire packages for Pelton, Francis & Kaplan Turbines



PELTON TURBINE

- Nozzle configuration from 1 Jet up to 6 Jets
- Unit capacity up to 30 MW
- Operating Heads up to 1000 meters
- Runners in forged/cast construction



FRANCIS TURBINE

- Horizontal/Vertical configuration
- Unit capacity up to 30 MW
- Operating Heads up to 450 meters
- Runners in forged/cast construction
- Mechanical & Electrical BoP and auxiliaries offered
- SCADA, Automation and Communication System
- In house Control, Protection and Metering Panels
- Transportation, Erection and Commissioning

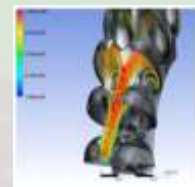
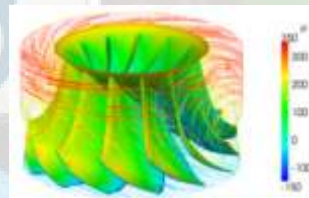


KAPLAN TURBINE

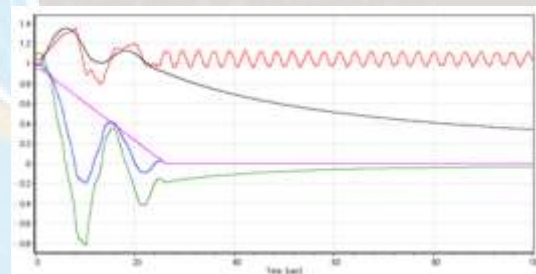
- Horizontal/Vertical configuration
- Unit capacity up to 15 MW
- Operating Heads up to 45 meters
- Multi Runner blade option
- Semi/Full Kaplan option

RELIABLE TECHNOLOGY

The turbine hydraulic design uses latest technologies and high end developed software including CAD-CAM and CFD software for efficient flow characteristics.



Detailed transient study is carried out to determine water hammer characteristics by latest Software ensuring optimum and safe operation.





Yash Neon has been specially established as 'Hydro Service Centre' designed to handle specific needs of hydro plants like supply of spares, repairs & services as well as operations & maintenance with professional expertise.

It also provides installation and commissioning of customised hydro power projects with the cutting edge of high quality European design & equipment with competitive pricing.

Yash Neon is a rapidly recognised as a preferred company in Renovation, Modernization, Rehabilitation, Upgradation and Retrofitting of existing power houses with best in line authentic supply of electrical & mechanical spares. It also undertake in-house design & manufacturing of complete electrical panels.

It has a dedicated team of specialized engineers for efficient health check ups followed by fault analysis and troubleshooting by immediate expert support on call.

Yash Neon has exclusive customer care offices at Gurugram (India) and Kathmandu (Nepal) with experts having hands on experience in finer details with an in-depth know how of components in hydro power plants. Qualitative tie-ups with leading and committed OEMs is a well-oiled network to take methodical care of the most discerning of components' procurement.

WHAT WE DO?

- Repair and maintenance of all types of turbines, generators and B.O.P. of any make
- Supply of spares
- Upgradation & Modernization
- Immediate Expert Support on call
- Fault analysis and trouble shooting
- Dismantling, inspection, diagnosis and repair
- Operations & Maintenance of Plants

CORE STRENGTHS

'Close to Zero downtime of hydro power plants due to the machine defects'. Our vision is to ensure least wastage of flowing water by providing immediate services to hydro power plants.

To provide the highest quality of care and rehabilitation services to ensure each hydro power plant achieves the maximum functional efficiency.

OUR SERVICES

Repair and Maintenance of turbines of any make

- Pelton turbines
- Francis turbines
- Kaplan turbines
- Cross Flow
- Bulb turbines
- Pump turbines
- Pump
- Major turbine overhaul
- Modernization of existing equipment as well as other original equipment manufacture



GENERATORS

- All types and make of synchronous generators
- Modernization/replacement of active parts such as
 - Stator winding (coil or bars)
 - Poles
 - Poles winding
 - Pole winding re-insulation
 - New stator core



ELECTRICAL EQUIPMENT

- Customized solutions and services for all electrical system in the power plant.
- Complete product range-from low voltage equipment including auxiliary
- Complete product range for 33 kV, 132 kV, 220 kV switchyard/sub station

VALVES

- Spherical valves
- Butterfly valves
- Relief valves
- Ring sleeve valves
- Gate valves



AUTOMATION

- Automation and control
- Water level & discharge flow measurement system
- Electrical protection
- Excitation system
- SCADA system
- Online monitoring and diagnosis system

PENSTOCK AND GATES - REHABILITATION:

- All types of gates (roller, flap, radial or sliding) electrical and hydraulic operated
- Trash racks
- Stop locks
- Penstocks





Yash Infra offers key expertise in civil work and design insights in the pursuit to deliver hydropower excellence with the mission to establish and achieve exacting standards in infrastructural development.





WHO WE ARE?

SCHIMMER INFRA is among the most reputed construction company in hydro power in Nepal, India and overseas.

We have a breadth of experience in encompassing all sector of the infrastructure in hydro power Like dams, barrage, tunnels, micro-tunnels, power house, roads, bridges etc.

We have been providing our clients with reliable solution to their most complex construction challenges. We are recognized as an expert in underground construction work for our strength in traditional construction method and for our creative fresh approach to cutting edge technology and delivery system.

We support our client from project inception, to the commissioning of the fully operational facilities. Our network of local offices enables us to offer our clients a strong Local presence.

Each project is managed by our team of highly experienced personnel, incorporating the service of various professionals in the geo technical survey and other related field with whom we have established an excellent working relationship. We have tunneling experience in all types of ground and geological condition varying from very hard and abrasive rock to the very soft or flowing ground. Our experience and expert team of engineers approach each project with special and unique technique for underground excavation, rock treatment and concrete

lining. We have also replaced conventional tunneling method with state-of-the-art technology and sophisticated equipment and methods like NATM.

WHAT WE DO?

1) Construction

- Hydropower projects
 - Dam
 - Barrage/weir
 - Tunnels
 - Surge system -Surge shaft (Vertical / Inclined), Surge Chamber, Surge tunnel
 - Pressure Shaft (Vertical / Inclined)
 - Power house [Surface, Semi Surface and underground]
 - Roads
 - Bridges
 - Other infrastructure



Projects at a Glance



Yash Group excellence is a cohesive team effort of professionals, technocrats from various disciplines in the hydropower world. Each group entity is striving relentlessly to create its own pedigree so the Group's lineage rises as simply unparalleled. The efforts are exemplary and it shows...

PROJECTS OF YASH SCHIMMER

ERECTION AT JEULI GAD, NEPAL
1 x 1 MW, Horizontal Francis



LOWER TADI KHOLA, NEPAL
2 x 2.5 MW, Horizontal Francis



LOWER CHHOTE KHOLA, NEPAL
2 x 0.5 MW, 2 Jet Horizontal Pelton



RICHET KHOLA, NEPAL
2 x 2.5 MW, 2 Jet Horizontal Pelton



UPPER RAWA KHOLA, NEPAL
2 x 1.5 MW, 3 Jet Horizontal Pelton



PROJECTS OF YASH NEON

S&R PROJECT AT HADI KHOLA NEPAL



UPPER NAUGADH HEP, NEPAL (2X4 MW + 10% C.O.L.)



KABELI B1 (25 MW)



IWA KHOLA (9.9 MW)



PROJECTS OF YASH INFRA

EPC CONTRACT UPPER PUWA-II HEP (4.96 MW)



EPC CONTRACT ISUWA KHOLA HEP(97.2 MW)



HYDRO-MECHANICAL WORKS BALEPHI A HPP (22 MW)







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