

# Pokhrel Jethobudho: Enhanced landrace rice variety



## What is Pokhrel Jethobudho?

Jethobudho is a widely grown fine, aromatic rice landrace in Pokhara valley of Nepal which is well known for its high value for post harvest quality traits and good market potential. It is adapted to valleys of 600-900m with cold water. Jethobudho grown under cold water source is of higher grain yield with better quality traits.



## What are the characteristics of Pokhrel Jethobudho?

Pokhrel Jethobudho is a tall (160-180 cm), low tillering (6-9/hill) variety that mature in 180-185 days after seeding. Plants are light green. The panicle is medium with around 120-180 grains. The grain is short slender 0.75 cm length and 0.19 cm width, fine type, grains at the tip has short awn with purple apiculus, excellent kernel elongation (2.2 times) and volume expansion (302%) with very soft rice after cooking.



## Why grow Pokhrel Jethobudho rice?

Enhanced Pokhrel Jethobudho was found to be superior to the local check (farmers' own Jethobudho) in terms of uniformity, grain yield, straw quality, quality of post harvest traits (milling and organoleptic) and field tolerance to blast. The enhanced Jethobudho has higher grain yield potential (up to 3.35 t/ha) compared to the highest range of productivity of this landrace 2.4 t/ha.



## What are the prevalent cropping patterns that fit Pokhrel Jethobudho?

- Rice-fallow-maize
- Rice-winter vegetables-fallow
- Rice-wheat-fallow
- Rice-fallow-spring maize

## Where should you grow Pokhrel Jethobudho?

Jethobudho landrace is the native to Pokhara valley. Jethobudho is best adapted to Pokhara valley to cold irrigation water, irrigated, irrigated lowland and also in long standing water conditions, under cold running water of temperature 20-28°C particularly in Pame, Biruwa, Aarghau, Sisuwa, Khola Ko Chew, Aarba, Kundhar, Khaste, Maldi, Satmuhane, Malmul and Fewa phants of Kaski district. Although this variety could be grown in tarai and inner tarai, farmers reported that its quality particularly the aroma and other eating qualities reduced drastically. Therefore this variety is recommended to the altitude range of 600 to 900 masl of Nepal specifically Pokhara valley and its surroundings of Western Development region where rice can be irrigated with cold water.

## Is Pokhrel Jethobudho rice always better?

It failed to produce panicle in the altitude higher than 1000 masl and hot irrigation water condition.

## For more information

Visit the Rice Knowledge Bank at [www.knowledgebank.irri.org](http://www.knowledgebank.irri.org)

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