RTP, turnover and statistical denominators

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Keep configuration values separate

Context	RTP
TR-IN-97 cash configuration	97%; house edge 3% of accepted turnover
Galaxsys product card	96.2–97.6%
Recorded demo rules and PDF	96.17–97%
SlotCatalog	96.12–97%
Casino Guru and Stake product card	97%

These are values attached to their own sources, versions and settings, not an averaged RTP and not a list of exact selectable settings. The player does not change the RTP with the stake button. TR-IN-97 has no in-session RTP switch or accumulating RTP-transition counter. A completed round resets the tower and current multiplier; the floor count is a different quantity.

Expectation at a fixed turnover

Example	Recorded calculation
Turnover 10,000 INR at RTP 97%	Expected gross 9,700 INR; expected net −300 INR
Same turnover at RTP 96.2%	Expected losses 380 INR
Difference in expected losses, A−B	−80 INR
Relative loss reduction against 380 INR	80/380 = 21.0526%
RTP difference	0.8 percentage points
Separate turnover 120 FUN at 97%	Expected gross 116.40 FUN; expected net −3.60 FUN

These fixed-turnover expectations do not describe the conditional expectation of a selected successful path. Equal deposits do not necessarily imply equal turnover. In the separate two-outcome model, p=0.485 for

gross 2× and p=0.515 for gross 0 gives RTP 97%; that is not the floor-outcome distribution of Tower Rush.

A short observed sample uses another denominator

TR-DEMO-01 contains 17 accepted cycles, of which one was void and 16 were settled. Initial debits of 127.50 FUN less the 7.50 FUN refund give 120.00 FUN comparable turnover. Gross payouts are 187.00 FUN: aggregate sample return is 187/120 ×100 =155.8333%. Averaging the individual gross/stake ratios instead gives 136.2500%. The different denominators are not interchangeable.

Sample statistic	Value
Net result and closing balance	+67.00 FUN; 1,067.00 FUN
Positive payout / profitable / exact stake return	9/16; 8/16; 1/16
Bonus events	4/16 =25%: two Frozen, one Temple, one Triple
Maximum payout	50 FUN
Sample net variance, n−1 denominator	174.695833 FUN²
Standard deviation	13.217255 FUN
Maximum settled-balance drawdown	10 FUN
Longest sequence of zero payouts	One cycle
95% Wilson interval for positive gross, 9/16	[33.179%; 76.901%]
Final unsettled obligation	0 FUN

The Wilson interval estimates a frequency from this short ledger. It is not an RTP interval or a guarantee of future outcomes. The complete 17-row ledger is in G03-demo.pdf, “TR-DEMO-01: the complete session ledger”.

Caps, precision and state

The cap restricts the gross of one accepted round, not an external withdrawal request. Demo gross is min(raw,10,000 FUN); TR-IN-97 gross is min(raw,1,000,000 INR). A 100 INR stake has an effective 10,000× cap and a 10,000 INR stake a 100× cap. The money-profile stake increment is 0.10 INR and wallet precision is 0.01 INR. Floor factors are multiplied without intermediate payout rounding; after applying the cap, final gross is rounded half-up to 0.01 currency unit. Sequential floors depend on the round state and are not independent betting panels.