# **PANIPANI** nie do bani

- Gravity 16.1 BLG
- ABV 6.8 %
- IBU **65**
- SRM **4.8**
- Style American IPA

## **Batch size**

- Expected quantity of finished beer 22 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.8 liter(s)

# **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 21 liter(s)
- Total mash volume 28 liter(s)

### **Steps**

- Temp 66 C, Time 60 min
  Temp 72 C, Time 10 min

# Mash step by step

- Heat up 21 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 66C
- Keep mash 10 min at 72C
- Sparge using 13.8 liter(s) of 76C water or to achieve 27.8 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3 kg <i>(42.9%)</i>	80 %	5
Grain	Viking Pilsner malt	1 kg <i>(14.3%)</i>	82 %	4
Grain	Viking Wheat Malt	3 kg <i>(42.9%)</i>	83 %	5

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	10 g	60 min	13.2 %
Boil	Amarillo	20 g	30 min	9.5 %
Boil	Mosaic	20 g	30 min	10 %
Boil	Simcoe	20 g	30 min	13.2 %
Boil	Mosaic	30 g	5 min	10 %
Whirlpool	Amarillo	50 g	5 min	9.5 %
Dry Hop	Simcoe	30 g	5 day(s)	13.2 %
Dry Hop	Amarillo	50 g	5 day(s)	9.5 %
Dry Hop	Mosaic	50 g	5 day(s)	10 %

### **Yeasts**

us04	Ale	Slant	150 ml	
u30 <del>4</del>	Ale	Jidill	130 1111	