# Google Sheet Pricing Model for Custom Door Calculation (INR)

This document provides the layout and formulas required to replicate the final verified pricing logic in a Google Sheet or Excel file.

## Part 1: Setup and Constants (Columns A & B)

Input the key and value for all constants. The logic in **Section E** references these cell locations.

| **Col A** | **Col B** | **Value** | **Units** | **Notes** |
| --- | --- | --- | --- | --- |
| **B5** | **BASE\_THICKNESS\_MM** | 30 | mm | Default thickness for base rate |
| **B6** | **THICKNESS\_SURCHARGE\_RATE** | 3.25 | INR/sqft/mm | $\mathbf{S\_{inc}}$ |
| **B7** | **DOUBLE\_LEAF\_FACTOR** | 0.16 | % |  |
| **B8** | **EDGE\_BANDING\_RATE** | 50.00 | INR/sqft | $\mathbf{R\_{EB}}$ |
| **B9** | **SQMM\_TO\_SQFT** | 92903.04 | Unit | Conversion factor (mm² to sqft) |
| **B10** | **CORE\_DC** | 9.00 | INR/sqft | $\mathbf{C\_{DC}}$ (Double Core Surcharge) |
| **B11** | **CORE\_HDF** | 18.00 | INR/sqft | $\mathbf{C\_{HDF}}$ (Core + HDF Surcharge) |

## Part 2: Input Parameters (Columns C & D)

These cells hold the user's specific door requirements for the sample calculation.

| **Col C** | **Col D** | **Value** | **Units** | **Notes** |
| --- | --- | --- | --- | --- |
| **D5** | Door Length (L) | 2133.6 | mm | Input dimension |
| **D6** | Door Width (W) | 914.4 | mm | Input dimension |
| **D7** | Door Thickness (T) | 40.0 | mm | Input dimension |
| **D8** | Rails Material | Hardwood | N/A |  |
| **D9** | Filler Material | Ecolax Board | N/A |  |
| **D10** | Core Option | Core + HDF | N/A |  |
| **D11** | Door Finish Type | Veneer | N/A |  |
| **D12** | Finish Option | Smoke Oak Veneer | N/A |  |
| **D14** | Double Leaf | 0 | (0=NO, 1=YES) | Use 1 for YES, 0 for NO in the sheet |
| **D15** | Vision Hole | 1 | (0=NO, 1=YES) |  |
| **D16** | Edge Banding | 1 | (0=NO, 1=YES) |  |
| **D17** | Coating Rate Used | 180.00 | INR/sqft | Rate for Resin Coated (Both Sides) |
| **D18** | Grooving Rate Used | 22.00 | INR/sqft | Rate for Grooving (Both Sides) |
| **D19** | Veneer Rate Used | 90.00 | INR/sqft | Rate for Smoke Oak Veneer |
| **D20** | Vision Hole Fee Used | 65.00 | INR/door | Fee for T=40.0mm |
| **D21** | Base Rate Used | 131.00 | INR/sqft | Rate for Hardwood/Ecolax |

## Part 3: Helper & Intermediate Calculations (Column H)

These formulas calculate the required areas using the dimensions from Part 2.

| **Cell** | **Calculation Step** | **Formula to Enter in Cell** | **Result (Sample)** |
| --- | --- | --- | --- |
| **H5** | **Area 1X (Single Face)** | =(D5\*D6)/B9 | 21.0000 |
| **H6** | Area 2X (Both Faces) | =H5\*2 | 42.0000 |
| **H7** | Edge Area (mm²) | =2\*(D5+D6)\*D7 | 243840 |
| **H8** | **Edge Area (sqft)** | =H7/B9 | 2.6246 |

## Part 4: Step-by-Step Price Calculation (Column I)

These formulas implement the final pricing logic and conditional surcharges.

| **Cell** | **Calculation Step** | **Formula to Enter in Cell** | **Result (Sample)** |
| --- | --- | --- | --- |
| **I5** | **PSF RATE CALCULATION** |  |  |
| I6 | 1. Base Rate ($\mathbf{R\_{base}}$) | =D21 | 131.00 |
| I7 | 2. Thickness Surcharge | =(D7-B5)\*B6 | 32.50 |
| I8 | 3. Core Surcharge (Differential) | =B11-B10 | 9.00 |
| **I9** | **Final PSF Rate** | =SUM(I6:I8) | **172.50** |
| :--- | :--- | :--- | :--- |
| **I10** | **1. SKELETON COST** |  |  |
| **I11** | Skeleton Cost | =H5\*I9 | **3,622.50** |
| :--- | :--- | :--- | :--- |
| **I12** | **2. FINISH MATERIAL COST** |  |  |
| **I13** | Veneer Cost (2X Area) | =H6\*D19 | **3,780.00** |
| :--- | :--- | :--- | :--- |
| **I14** | **3. ADD-ON SURCHARGES** |  |  |
| I15 | Double Leaf Surcharge | =I11\*B7\*D14 | 0.00 |
| I16 | Vision Hole Fee | =D20\*D15 | 65.00 |
| I17 | Edge Banding Cost | =H8\*B8\*D16 | 131.23 |
| I18 | Coating Cost (Resin 2S) | =H5\*D17 | 3,780.00 |
| I19 | Grooving Cost (Both Sides) | =H5\*D18 | 462.00 |
| **I20** | **Total Add-on Surcharges** | =SUM(I15:I19) | **4,438.23** |
| :--- | :--- | :--- | :--- |
| **I21** | **TOTAL DOOR PRICE** | =SUM(I11, I13, I20) | **11,840.73** |