Scenario-4 – Same as scenario-3..with extra rpt filter applied all export oriented companies with uncontrolled transactions

# 2. Create Scenarios by applying/removing filters and varying thresholds

df = df[df["net\_worth"] > 0]

df = df[df["persistent\_loss"] == 0]

df = df[df["emp\_cost\_pct"] >= 25]

df = df[df["service\_income\_pct"] >= 75]

df = df[df["op\_rev"].between(1, 30000)]

df = df[df["pli"].between(0, 50)]

df = df[df["export\_income\_pct"] >= 75]

df = df[df["rpt\_pct"] <= 25]

Results:

Median regression pli vs op\_rev by FY

| **FY** | **n\_obs** | **Slope** | **Pseudo\_R²** | **P-value** |
| --- | --- | --- | --- | --- |
| **0** | 2021-22 | 148 | 0.000803 | 0.010558 | 0.146126 |
| **1** | 2022-23 | 151 | 0.000813 | 0.008912 | 0.423532 |
| **2** | 2023-24 | 144 | -0.000067 | 0.000404 | 0.903530 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |

Mean regression pli vs op\_rev by FY

| **FY** | **n\_obs** | **Slope** | **R²** | **P-value** |
| --- | --- | --- | --- | --- |
| **0** | 2021-22 | 148 | 0.000337 | 0.004023 | 0.443745 |
| **1** | 2022-23 | 151 | 0.000812 | 0.005674 | 0.357955 |
| **2** | 2023-24 | 144 | -0.000296 | 0.002257 | 0.571750 |

Median regression pli vs Log(op\_rev) by FY

| **FY** | **n\_obs** | **Slope** | **Pseudo\_R²** | **P-value** |
| --- | --- | --- | --- | --- |
| **0** | 2021-22 | 148 | 1.442010 | 0.037452 | 0.019649 |
| **1** | 2022-23 | 151 | 0.732298 | 0.011371 | 0.202038 |
| **2** | 2023-24 | 144 | -0.077865 | 0.000097 | 0.860775 |

Mean regression pli vs Log(op\_rev) by FY

| **FY** | **n\_obs** | **Slope** | **R²** | **P-value** |
| --- | --- | --- | --- | --- |
| **0** | 2021-22 | 148 | 1.080821 | 0.029173 | 0.037937 |
| **1** | 2022-23 | 151 | 0.476242 | 0.006010 | 0.344069 |
| **2** | 2023-24 | 144 | -0.123979 | 0.000602 | 0.770272 |

Residual comparison:

| **FY** | **MAD (Median Regression)** | **SD (OLS Regression)** | **n\_obs** |
| --- | --- | --- | --- |
| **0** | 2021-22 | 6.835363 | 11.999010 | 148 |
| **1** | 2022-23 | 6.899434 | 11.709181 | 151 |
| **2** | 2023-24 | 5.040396 | 10.113989 | 144 |