Relation between small causal agents and type of Fatal accidents in code no. 120102 software service as small industry in 1999-2020

| Ciati | on between small car   |      |         |       |              |          |   |     |                  | 11                                     | 12            |                   | 14        | 15 | 16   | 17                  | 18      | 19                          | 90 | 99 | 00 |
|-------|--|------|---------|-------|--------------|----------|---|-----|------------------|--|---------------|-------------------|-----------|----|------|---------------------|---------|-----------------------------|----|----|----|
| code  |  | fall | falling | crash | struck<br>by | collapse |   | cut | injury<br>to the | contact to<br>high/low-<br>temperature | contact<br>to | electric<br>shock | explosion |    | fire | traffic<br>accident | traffic | reaction to motion/improper |    |    |    |
| 111   | engine   |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
| 121   | power transmission<br>mechanism                                  |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
| 131   | circular sawing machine  |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
| 132   | band sawing machine  |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
| 133   | wood planer<br>machine   |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
| 134   | hollow chisel<br>mortiser, wood<br>borer                         |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
| 133   | chamfering<br>machine, router,<br>woodworking<br>milling machine |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
| 136   | chain saw  |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
| 139   | other woodworking machines                                       |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
| 141   | leveling,<br>transporting or<br>loading machine                  |      |         |       |              |          | 1 |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 1  |
| 142   | excavating<br>machine  |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
| 143   | foundation work<br>machine                                       |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
| 144   | hardening machine  |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
| 145   | demolition<br>machine  |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
| 146   | vehicle for high lift<br>work                                    | 1    |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 1  |
| 149   | other construction machines                                      |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
|       | lathe  |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
|       | drill press, milling machine                                     |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
|       | grinding machine,<br>buffing machine                             |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
|       | power press  |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |
| 155   | forging pressure   |      |         |       |              |          |   |     |                  |  |               |                   |           |    |      |                     |         |                             |    |    | 0  |

|     | hammer   |  |  |  |   |  |  |  |  |   |  |          |   |
|-----|--|--|--|--|---|--|--|--|--|---|--|----------|---|
|     | shearing machine                                 |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 159 | other metal<br>manufacturing<br>machines         |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 161 | centrifugal<br>machine                           |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 162 | mixer, grinder                                   |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 163 | roll machine<br>(except printingroll<br>machine) |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 164 | injection molding machine                        |  |  |  |   |  |  |  |  |   |  |          | 0 |
|     | food<br>manufacturing<br>machine                 |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 166 | printing machine                                 |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 167 | industrial robot                                 |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 169 | other general power machines                     |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 171 | felling machine                                  |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 172 | mobile logging machine                           |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 173 | skyline yarding<br>machine                       |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 179 | other mobile<br>silviculture<br>machine          |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 211 | crane  |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 212 | mobile crane                                     |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 213 | derrick crane                                    |  |  |  |   |  |  |  |  | _ |  | <u> </u> | 0 |
| 214 | elevator, lift                                   |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 215 | cargo lifting appliance                          |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 216 | gondola  |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 217 | lumberyard<br>equipment, logging<br>cableway     |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 218 | simple skyline<br>yarding equipment              |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 219 | other powered crane                              |  |  |  |   |  |  |  |  |   |  |          | 0 |
|     |  |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 222 | forklift   |  |  |  |   |  |  |  |  |   |  |          | 0 |
|     |  |  |  |  |   |  |  |  |  |   |  |          | 0 |
| 224 | conveyor   |  |  |  | Щ |  |  |  | <u>                                     </u> |   |  | <u></u>  | 0 |
| 225 | loader   |  |  |  |   |  |  |  |  |   |  |          | 0 |

| 226 | straddle carrier                 |  |  |  |   |  |  |  |   |   |   |  | 0 |
|-----|----------------------------------|--|--|--|---|--|--|--|---|---|---|--|---|
| 227 | rough terrain<br>hauler          |  |  |  |   |  |  |  |   |   |   |  | 0 |
| 29  | other powered conveying machines |  |  |  |   |  |  |  |   |   |   |  | 0 |
| 31  | cars, bus,<br>motorcycle         |  |  |  |   |  |  |  |   | 4 |   |  | 4 |
|     | railway vehicle                  |  |  |  |   |  |  |  |   |   | 1 |  | 1 |
|     | other vehicles                   |  |  |  |   |  |  |  |   |   |   |  | 0 |
|     | boiler                           |  |  |  |   |  |  |  |   |   |   |  | 0 |
|     | pressure vessel                  |  |  |  |   |  |  |  |   |   |   |  | 0 |
| 19  | other pressure<br>vessels        |  |  |  |   |  |  |  |   |   |   |  | 0 |
| 21  | chemical facilities              |  |  |  |   |  |  |  |   |   |   |  | 0 |
| 331 | gas welding<br>equipment         |  |  |  |   |  |  |  |   |   |   |  | 0 |
| 22  | arc welding equipment            |  |  |  |   |  |  |  |   |   |   |  | 0 |
| 20  | other welding equipment          |  |  |  |   |  |  |  |   |   |   |  | 0 |
|     | kiln, caldron                    |  |  |  | П |  |  |  |   |   |   |  | 0 |
| 42  | industrial dryer                 |  |  |  |   |  |  |  | i |   |   |  | 0 |
| 49  | other kiln, caldron              |  |  |  |   |  |  |  |   |   |   |  | 0 |
| 51  | transmission                     |  |  |  |   |  |  |  |   |   |   |  | 0 |
| 52  | electric power<br>facilities     |  |  |  |   |  |  |  |   |   |   |  | 0 |
| 59  | other electrical equipment       |  |  |  |   |  |  |  |   |   |   |  | 0 |
| 261 | human power<br>cranes            |  |  |  |   |  |  |  |   |   |   |  | 0 |
| 62  | human power<br>hauling equipment |  |  |  |   |  |  |  |   |   |   |  | 0 |
| 62  | human power<br>machine           |  |  |  |   |  |  |  |   |   |   |  | 0 |
|     | hand tool                        |  |  |  |   |  |  |  |   |   |   |  | 0 |
| 71  | ladder                           |  |  |  |   |  |  |  |   |   |   |  | 0 |
| 72  | slinging tool                    |  |  |  |   |  |  |  |   |   |   |  | 0 |
| 79  | other tools                      |  |  |  |   |  |  |  |   |   |   |  | 0 |
| 91  | other equipments, facilities     |  |  |  |   |  |  |  |   |   |   |  | 0 |
|     | scaffolding                      |  |  |  |   |  |  |  |   |   |   |  | 0 |
|     | timbering                        |  |  |  |   |  |  |  |   |   |   |  | 0 |
|     | stairs, landing stage            |  |  |  |   |  |  |  |   |   |   |  | 0 |
|     | opening                          |  |  |  |   |  |  |  |   |   |   |  | 0 |
|     | roof, beam, haze,                |  |  |  |   |  |  |  |   |   |   |  |   |

|     | crossbeam,<br>principal rafter                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
|     | working platform,<br>boot board                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
|     | passage   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 418 | building,<br>establishment                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 419 | other temporary<br>buildings,<br>establishments |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 511 | explosive<br>substance                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 512 | inflammable<br>substance                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
|     | inflammable gas                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   | 1  |
|     | harmful substance                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 515 | radiation                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 519 | other hazards,<br>harmful substances            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 521 | metal material                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 522 | lumber, bamboo                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 523 | stone, sand,<br>substance                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 529 | other materials                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 611 | load  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 612 | machine/equipment as load                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 711 | natural ground,<br>rock                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 712 | standing tree                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 713 | water   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 714 | abnormal<br>environment                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 715 | high/cold<br>temperature<br>environment         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 719 | other environments                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 911 | other causal agent                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   | 1  |
| 921 | no causal agent                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 8 |   | 8  |
| 999 | unclassifiable                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 0  |
| 000 | total   | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 0 | 9 | 0 | 17 |

Data of 2011 year do not include Industrial accidents caused by Great East Japan Earthquake in 2011.

Data sources: <a href="https://anzeninfo.mhlw.go.jp/anzen\_pg/SIB\_FND.aspx">https://anzeninfo.mhlw.go.jp/anzen\_pg/SIB\_FND.aspx</a> (MHLW, Japan)

Return to <a href="https://www.jisha.or.jp/english/statistics/2020efretcs.html">https://www.jisha.or.jp/english/statistics/2020efretcs.html</a>