

Accident Rates for Public Works Contracts and the Construction Industry from 2014 to 2023

| Year ¹ | Public Works Contracts | | | Accident Rates | | | | | |
|-------------------|------------------------|--|--------------------------------------|------------------------|----------------|-----------------------|------------------------|----------------|-----------------------|
| | | | | Fatal Accidents | | | Reportable Accidents | | |
| | No. of Fatalities | No. of Non-fatal Reportable Accidents ² | No. of Man-hours Worked ³ | Public Works Contracts | | Construction Industry | Public Works Contracts | | Construction Industry |
| | | | | a ⁴ | b ⁵ | c ⁶ | a ⁴ | b ⁵ | c ⁶ |
| 2014 | 5 | 248 | 107,492,392.9 | 0.005 | 0.17 | 0.27 | 0.24 | 8.5 | 41.9 |
| 2015 | 4 | 287 | 107,550,537.8 | 0.004 | 0.13 | 0.20 | 0.27 | 9.7 | 39.1 |
| 2016 | 4 | 314 | 108,949,465.3 | 0.004 | 0.13 | 0.11 | 0.29 | 10.5 | 34.5 |
| 2017 | 5 | 411 | 124,246,121.5 | 0.004 | 0.17 | 0.19 | 0.34 | 12.1 | 32.9 |
| 2018 | 1 | 380 | 118,320,916.2 | 0.001 | 0.03 | 0.13 | 0.32 | 11.6 | 31.7 |
| 2019 | 0 | 189 | 101,275,373.5 | 0.000 | 0.00 | 0.16 | 0.19 | 6.7 | 29.0 |
| 2020 | 4 | 165 | 100,520,932.0 | 0.004 | 0.14 | 0.19 | 0.17 | 6.0 | 26.1 |
| 2021 | 3 | 206 | 108,516,777.6 | 0.003 | 0.10 | 0.22 | 0.19 | 6.9 | 29.5 |
| 2022 | 1 | 196 | 125,706,003.1 | 0.001 | 0.03 | 0.16 | 0.16 | 5.6 | 29.1 |
| 2023 | 6 | 227 | 132,470,707.3 | 0.005 | 0.16 | 0.17 | 0.18 | 6.3 | 27.6 |

¹ The figures for 2023 are captured as at 27 May 2024.

² A “non-fatal reportable accident” means industrial accident, which results in any injury that incapacity the worker for more than 3 days.

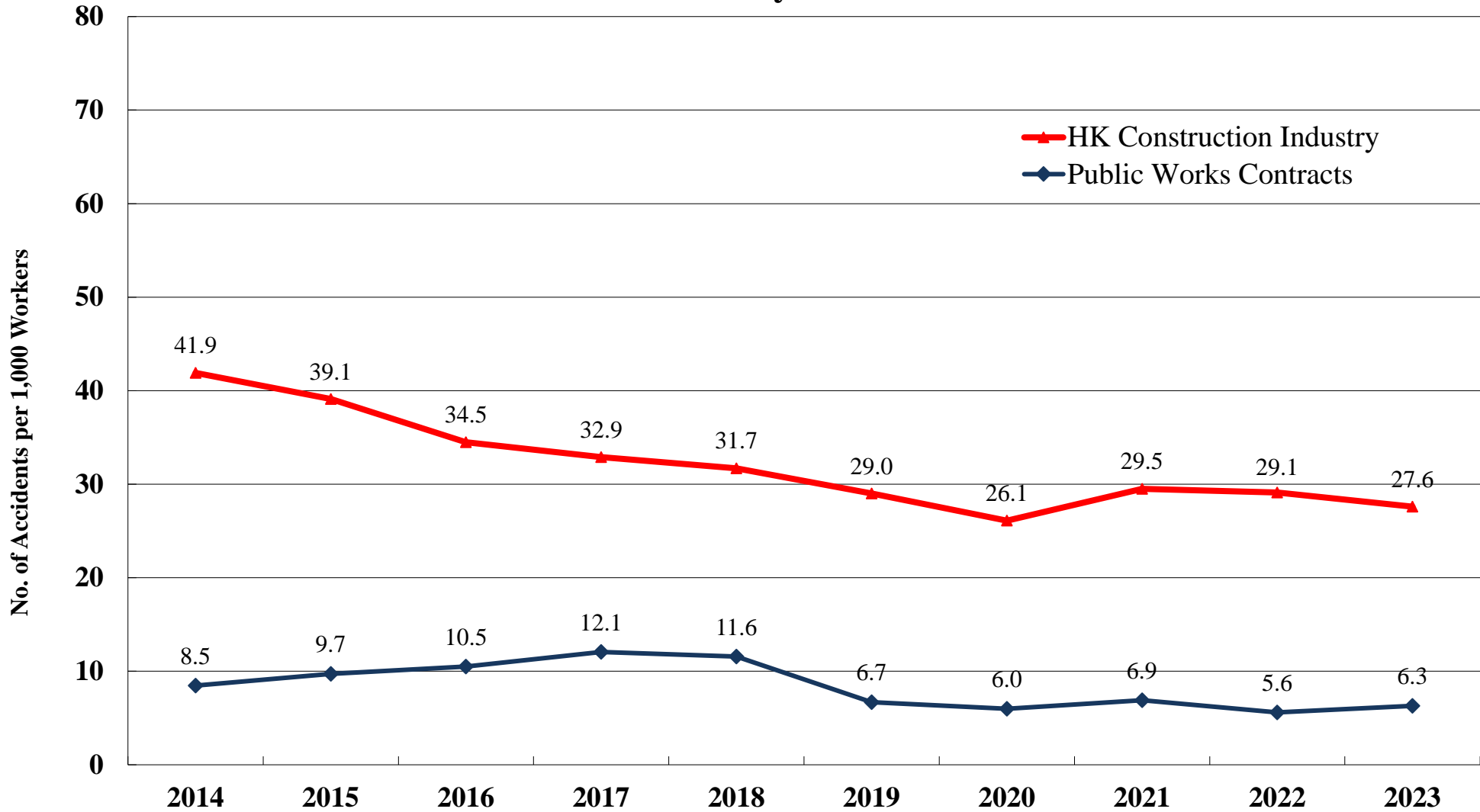
³ The “man-hours worked” means the man-hours worked by all persons employed on the works whether in the employ of main contractor and his sub-contractors who are exposed to the risks on the sites, including supervisory staff, site agent and engineer(s), workers, watchman etc.

⁴ The accident rates for columns marked with (a) are given in term of no. of accidents per 100,000 man-hours worked.

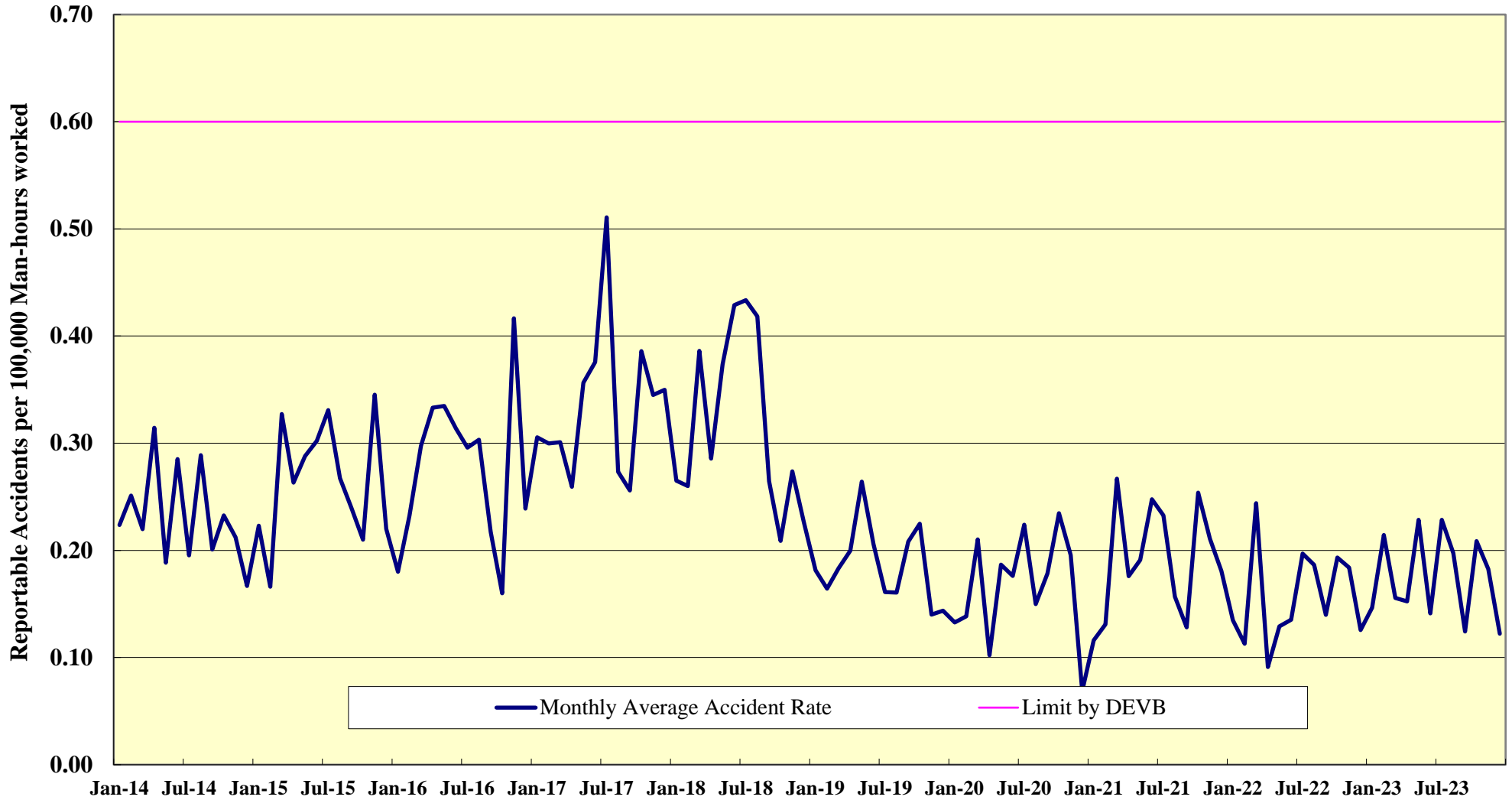
⁵ The accident rates for columns marked with (b) are given in term of no. of accidents per 1,000 workers per year based on a conversion of 1.67 accidents per 100,000 man-hours worked equivalent to 60 accidents per 1,000 workers per year.

⁶ The accident rates for columns marked with (c) are given in term of no. of accidents per 1,000 workers per year based on the statistics of the Labour Department.

Chart of Yearly Accident Rates for Public Works Contracts and the Construction Industry from 2014 to 2023



**Chart of Monthly Average Accident Rates
for Public Works Contracts from January 2014 to December 2023**



| Period | 1/02 - 12/02 | 1/03 - 3/04 | 4/04 - 3/05 | 4/05 - 1/11 | since 2/11 |
|---------------|--------------|-------------|-------------|-------------|------------|
| Limit by DEVB | 1.4 | 1.25 | 1.0 | 0.75 | 0.6 |

Number of Accidents for Public Works Contracts with Breakdown by Works Departments from 2014 to 2023

(A) No. of Fatalities

| Department | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ArchSD | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 1 | 4 |
| CEDD | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 2 | 0 | 0 |
| DSD | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| EMSD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HyD | 4 | 3 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 1 |
| WSD | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 5 | 4 | 4 | 5 | 1 | 0 | 4 | 3 | 1 | 6 |

(B) No. of Non-fatal accidents

| Department | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ArchSD | 80 | 98 | 71 | 103 | 155 | 82 | 61 | 98 | 96 | 76 |
| CEDD | 30 | 32 | 47 | 64 | 74 | 41 | 38 | 52 | 39 | 34 |
| DSD | 20 | 20 | 11 | 16 | 9 | 8 | 14 | 12 | 15 | 17 |
| EMSD | 4 | 8 | 9 | 10 | 3 | 5 | 8 | 12 | 12 | 17 |
| HyD | 94 | 107 | 152 | 198 | 123 | 41 | 38 | 27 | 23 | 71 |
| WSD | 20 | 22 | 24 | 20 | 16 | 12 | 6 | 5 | 11 | 12 |
| Total | 248 | 287 | 314 | 411 | 380 | 189 | 165 | 206 | 196 | 227 |

**Accident Rates for Public Works Contracts
with Breakdown by Works Departments from 2014 to 2023**

| Department | | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|------------------------------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ArchSD | a ¹ | 0.31 | 0.34 | 0.27 | 0.31 | 0.42 | 0.27 | 0.21 | 0.31 | 0.24 | 0.21 |
| | b ² | 11.0 | 12.3 | 9.7 | 11.1 | 15.3 | 9.6 | 7.6 | 11.3 | 8.7 | 7.4 |
| CEDD | a ¹ | 0.19 | 0.20 | 0.16 | 0.27 | 0.30 | 0.18 | 0.16 | 0.20 | 0.12 | 0.10 |
| | b ² | 6.9 | 7.0 | 5.8 | 9.7 | 10.9 | 6.3 | 5.9 | 7.0 | 4.4 | 3.7 |
| DSD | a ¹ | 0.14 | 0.20 | 0.13 | 0.23 | 0.13 | 0.11 | 0.17 | 0.13 | 0.12 | 0.12 |
| | b ² | 5.0 | 7.3 | 4.8 | 8.4 | 4.8 | 4.0 | 6.1 | 4.6 | 4.3 | 4.5 |
| EMSD | a ¹ | 0.06 | 0.10 | 0.13 | 0.16 | 0.04 | 0.06 | 0.10 | 0.12 | 0.10 | 0.14 |
| | b ² | 2.0 | 3.6 | 4.6 | 5.7 | 1.5 | 2.3 | 3.4 | 4.2 | 3.7 | 5.0 |
| HyD | a ¹ | 0.33 | 0.35 | 0.44 | 0.46 | 0.36 | 0.17 | 0.19 | 0.14 | 0.12 | 0.31 |
| | b ² | 11.9 | 12.6 | 15.7 | 16.5 | 12.8 | 6.2 | 6.8 | 4.9 | 4.2 | 11.2 |
| WSD | a ¹ | 0.14 | 0.18 | 0.22 | 0.22 | 0.18 | 0.14 | 0.06 | 0.05 | 0.11 | 0.11 |
| | b ² | 5.0 | 6.6 | 7.8 | 8.0 | 6.5 | 5.0 | 2.3 | 1.9 | 3.9 | 3.8 |
| All Dept. | a ¹ | 0.24 | 0.27 | 0.28 | 0.34 | 0.32 | 0.19 | 0.17 | 0.19 | 0.16 | 0.18 |
| | b ² | 8.5 | 9.8 | 10.0 | 12.1 | 11.6 | 6.7 | 6.0 | 6.9 | 5.6 | 6.3 |
| HA ^{3,4} | b ^{3,4} | 6.4/2.2 | 9.2/1.5 | 6.8/1.5 | 6.9/4.2 | 7.4/5.7 | 5.2/5.3 | 4.5/0.3 | 5.2/0.7 | 5.7/0.0 | 5.2/0.7 |
| Construction Industry ³ | b ³ | 41.9 | 39.1 | 34.5 | 32.9 | 31.7 | 29.0 | 26.1 | 29.5 | 29.1 | 27.6 |

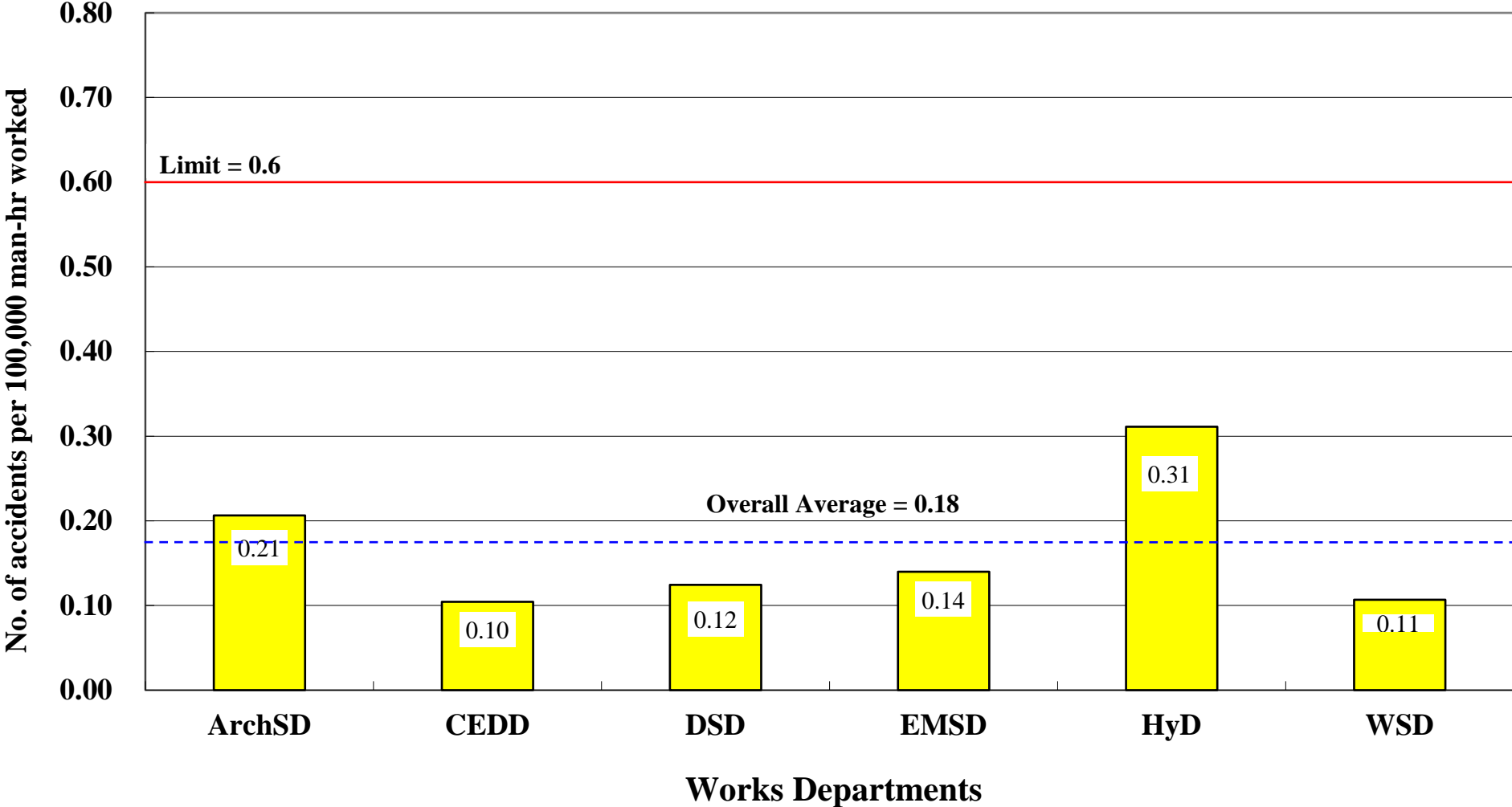
¹ The accident rates for columns marked with (a) are given in term of no. of accidents per 100,000 man-hours worked.

² The accident rates for columns marked with (b) are given in term of no. of accidents per 1,000 workers per year based on a conversion of 1.67 accidents per 100,000 man-hours worked equivalent to 60 accidents per 1,000 workers per year.

³ The accident rates for Housing Authority (HA) and the construction industry are given in terms of no. of accidents per 1,000 workers per year.

⁴ Housing Authority has two accident rates figures (New Works / Maintenance Works).

Accident Rates for Public Works Contracts in 2023



Severity for Public Works Contracts with Breakdown by Works Department from 2019 to 2023

No. of Man-Day Lost per 100,000 Man-Hours Worked

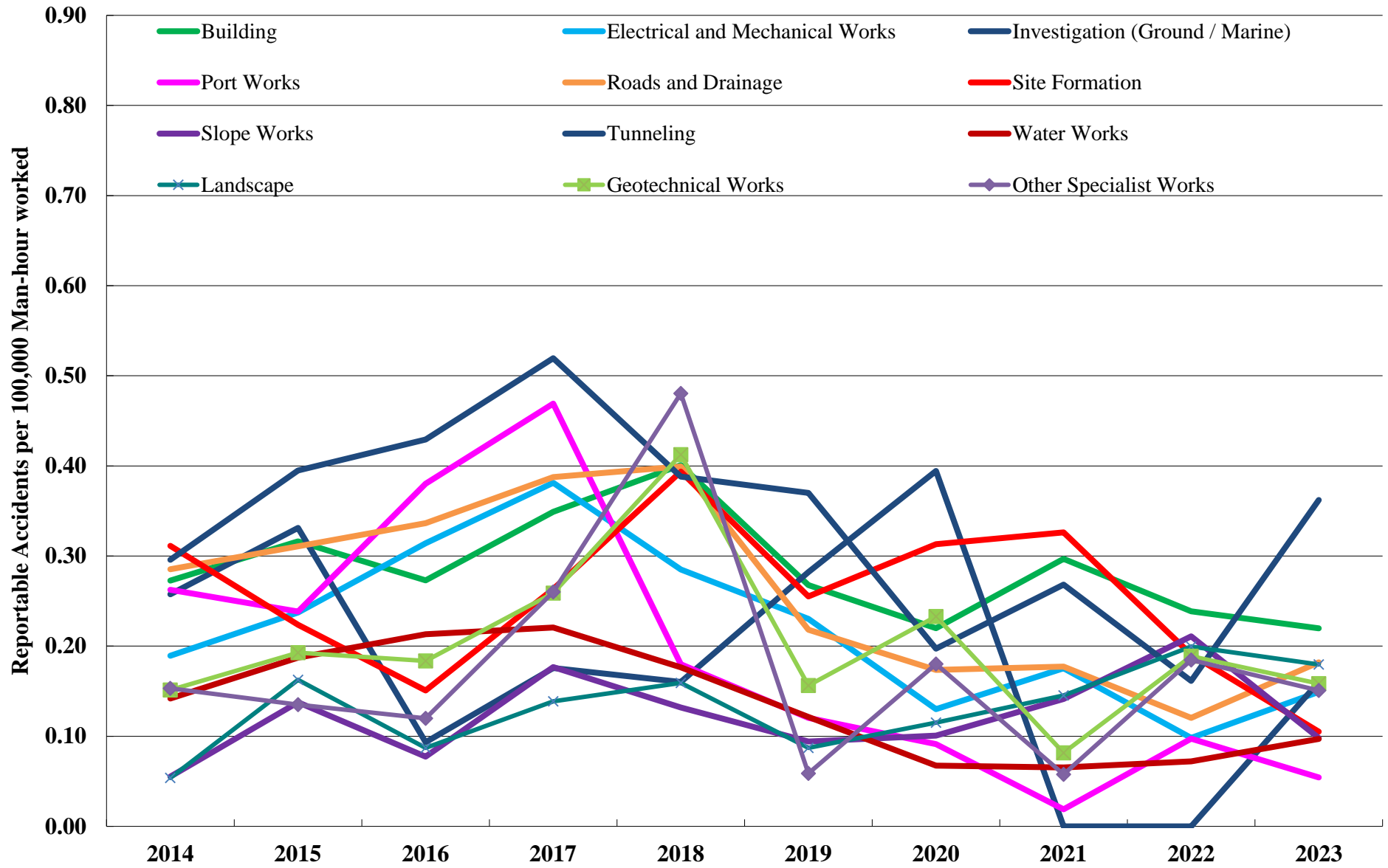
| Department | 2019 | 2020 | 2021 | 2022 | 2023 |
|------------------------|-------------|-------------|-------------|-------------|-------------|
| ArchSD | 72.7 | 53.3 | 59.6 | 55.9 | 68.9 |
| CEDD | 97.6 | 60.3 | 52.8 | 44.1 | 32.6 |
| DSD | 36.1 | 34.5 | 24.9 | 35.4 | 34.1 |
| EMSD | 11.7 | 11.0 | 18.4 | 14.0 | 16.8 |
| HyD | 52.4 | 38.6 | 44.7 | 37.4 | 56.7 |
| WSD | 40.4 | 24.4 | 14.2 | 20.2 | 34.0 |
| All Departments | 63.6 | 44.2 | 44.1 | 41.3 | 46.3 |

**Accident Rates for Public Works Contracts from 2014 to 2023
Analyzed by Types of Contracts**

| Types of Contracts | Accident Rates (in no. of accidents per 1,000 workers per year) | | | | | | | | | | |
|---------------------------------|---|------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|---------------------|
| | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Change ¹ |
| Tunneling | 10.6 | 14.2 | 15.4 | 18.7 | 13.9 | 13.3 | 7.1 | 9.6 | 5.8 | 13.0 | 124.1% |
| Building | 9.8 | 11.4 | 9.8 | 12.5 | 14.4 | 9.6 | 7.9 | 10.7 | 8.6 | 7.9 | -8.1% |
| Roads and Drainage | 10.3 | 11.2 | 12.1 | 13.9 | 14.3 | 7.8 | 6.2 | 6.4 | 4.3 | 6.5 | 51.2% |
| Landscape | 1.9 | 5.8 | 3.1 | 5.0 | 5.7 | 3.1 | 4.1 | 5.2 | 7.2 | 6.5 | -9.7% |
| Investigation (Ground / Marine) | 9.3 | 11.9 | 3.4 | 6.3 | 5.8 | 10.1 | 14.2 | 0.0 | 0.0 | 5.8 | - |
| Geotechnical Works | 5.4 | 6.9 | 6.6 | 9.3 | 14.8 | 5.6 | 8.4 | 2.9 | 6.8 | 5.7 | -16.2% |
| Other Specialist Works | 5.5 | 4.9 | 4.3 | 9.3 | 17.3 | 2.1 | 6.5 | 2.1 | 6.6 | 5.4 | -18.2% |
| Electrical and Mechanical Works | 6.8 | 8.5 | 11.3 | 13.7 | 10.2 | 8.3 | 4.7 | 6.3 | 3.5 | 5.4 | 54.3% |
| Site Formation | 11.2 | 8.0 | 5.4 | 9.5 | 14.1 | 9.2 | 11.2 | 11.7 | 6.9 | 3.8 | -44.9% |
| Slope Works | 2.0 | 4.9 | 2.8 | 6.3 | 4.7 | 3.4 | 3.6 | 5.1 | 7.6 | 3.5 | -53.9% |
| Water Works | 5.1 | 6.7 | 7.7 | 7.9 | 6.3 | 4.4 | 2.4 | 2.3 | 2.6 | 3.5 | 34.6% |
| Port Works | 9.4 | 8.6 | 13.7 | 16.9 | 6.5 | 4.3 | 3.3 | 0.7 | 3.5 | 2.0 | -42.9% |
| All Contracts | 8.5 | 9.7 | 10.5 | 12.1 | 11.6 | 6.7 | 6.0 | 6.9 | 5.6 | 6.3 | 12.5% |

¹ The “Change” is the percentage difference in accident rates between 2022 and 2023.

Accident Rates for Public Works Contracts Analyzed by Types of Contracts from 2014 to 2023



**No. of Accidents for Public Works Contracts from 2019 to 2023
Analyzed by Types of Accidents**

| Types of Accidents | 2019 | | 2020 | | 2021 | | 2022 | | 2023 | | |
|---|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|---------------------|
| | No. | % | No. | % | No. | % | No. | % | No. | % | Change ¹ |
| Slip, Trip or Fall On Same Level | 35 | 18.5% | 39 | 23.1% | 37 | 17.7% | 54 | 27.4% | 60 | 25.8% | 6 |
| Injured Whilst Lifting or Carrying/ Manual Lifting/ Manual Handling/ Handling Without Machinery | 29 | 15.3% | 23 | 13.6% | 36 | 17.2% | 25 | 12.7% | 33 | 14.2% | 8 |
| Fall of Person From Height metres | 19 | 10.1% | 13 | 7.7% | 25 | 12.0% | 20 | 10.2% | 28 | 12.0% | 8 |
| Struck By Moving or Falling Object | 18 | 9.5% | 26 | 15.4% | 22 | 10.5% | 32 | 16.2% | 27 | 11.6% | -5 |
| Striking Against Fixed or Stationary Object | 9 | 4.8% | 9 | 5.3% | 25 | 12.0% | 11 | 5.6% | 19 | 8.2% | 8 |
| Trapped In or Between Objects | 11 | 5.8% | 8 | 4.7% | 13 | 6.2% | 15 | 7.6% | 16 | 6.9% | 1 |
| Contact With Moving Machinery or Object Being Machined | 8 | 4.2% | 3 | 1.8% | 2 | 1.0% | 5 | 2.5% | 13 | 5.6% | 8 |
| Hand Tool Accident | 21 | 11.1% | 7 | 4.1% | 9 | 4.3% | 11 | 5.6% | 11 | 4.7% | - |
| Striking Against Moving Object | 5 | 2.6% | 10 | 5.9% | 5 | 2.4% | 5 | 2.5% | 5 | 2.1% | - |
| Contact With Electricity or Electric Discharge | - | - | - | - | - | - | - | - | 3 | 1.3% | 3 |
| Stepping On Object/ Nail | 1 | 0.5% | 1 | 0.6% | 2 | 1.0% | - | - | 3 | 1.3% | 3 |
| Machinery Operation Accident | 1 | 0.5% | 2 | 1.2% | 3 | 1.4% | 1 | 0.5% | 2 | 0.9% | 1 |
| Dust/ Foreign Particle In Eye | - | - | 3 | 1.8% | 2 | 1.0% | - | - | 2 | 0.9% | 2 |
| Exposure To Fire/ Burning | - | - | 1 | 0.6% | - | - | 1 | 0.5% | 1 | 0.4% | - |
| Exposure To or Contact With Harmful Substance (e.g. poison gas, toxic or corrosive substance) | - | - | - | - | 1 | 0.5% | - | - | - | - | - |
| Trapped By Collapsing or Overturning Object | 1 | 0.5% | - | - | 4 | 1.9% | - | - | - | - | - |
| Struck By Moving Vehicle/ Traffic Accident | 1 | 0.5% | 2 | 1.2% | 1 | 0.5% | - | - | - | - | - |
| Drowning or Asphyxiation | - | - | - | - | - | - | - | - | - | - | - |
| Exposure To Explosion | - | - | - | - | - | - | - | - | - | - | - |
| Crushing/ Burial | - | - | 2 | 1.2% | 1 | 0.5% | - | - | - | - | - |
| Sub-total | 159 | 84.1% | 149 | 88.2% | 188 | 90.0% | 180 | 91.4% | 223 | 95.7% | 43 |
| Other Types | 30 | 15.9% | 20 | 11.8% | 21 | 10.0% | 17 | 8.6% | 10 | 4.3% | -7 |
| Total number of accidents | 189 | - | 169 | - | 209 | - | 197 | - | 233 | - | 36 |

¹ "Change" means the difference in no. of accidents between 2022 and 2023

**No. of Accidents for Public Works Contracts from 2019 to 2023
Analyzed by Trades of Workers**

| Trades of Workers | 2019 | | 2020 | | 2021 | | 2022 | | 2023 | | |
|--|------|-------|------|-------|------|-------|------|-------|------|-------|---------------------|
| | No. | % | No. | % | No. | % | No. | % | No. | % | Change ¹ |
| Labourer | 85 | 45.0% | 80 | 47.3% | 98 | 46.9% | 88 | 44.7% | 98 | 42.1% | 10 |
| Carpenter (formworker) | 13 | 6.9% | 14 | 8.3% | 13 | 6.2% | 9 | 4.6% | 27 | 11.6% | 18 |
| Building Services/ E&M Worker | 5 | 2.6% | 3 | 1.8% | 10 | 4.8% | 12 | 6.1% | 18 | 7.7% | 6 |
| Rigger/ Metal Formwork Erector | 5 | 2.6% | 14 | 8.3% | 5 | 2.4% | 6 | 3.0% | 14 | 6.0% | 8 |
| Bar Bender and Fixer | 2 | 1.1% | 6 | 3.6% | 12 | 5.7% | 11 | 5.6% | 8 | 3.4% | -3 |
| General Welder | 3 | 1.6% | 2 | 1.2% | 6 | 2.9% | 8 | 4.1% | 7 | 3.0% | -1 |
| Manager/ Site Engineer/ General Foreman | 7 | 3.7% | 6 | 3.6% | 3 | 1.4% | 6 | 3.0% | 6 | 2.6% | - |
| Metal Worker | 2 | 1.1% | 1 | 0.6% | 9 | 4.3% | 2 | 1.0% | 5 | 2.1% | 3 |
| Plant & equipment Operator (hoist and crane) | 4 | 2.1% | - | - | 1 | 0.5% | 1 | 0.5% | 3 | 1.3% | 2 |
| Metal Scaffolder | 3 | 1.6% | 5 | 3.0% | 5 | 2.4% | 5 | 2.5% | 2 | 0.9% | -3 |
| Plumber | - | - | - | - | 2 | 1.0% | 3 | 1.5% | 2 | 0.9% | -1 |
| Leveller | 1 | 0.5% | 2 | 1.2% | - | - | 1 | 0.5% | 2 | 0.9% | 1 |
| Plasterer | 2 | 1.1% | - | - | 2 | 1.0% | 1 | 0.5% | 2 | 0.9% | 1 |
| Truck and Other Vehicle Driver | 1 | 0.5% | 4 | 2.4% | 3 | 1.4% | 1 | 0.5% | 2 | 0.9% | 1 |
| Construction/ Mechanical Plant Mechanic or Fitter | 3 | 1.6% | 2 | 1.2% | 4 | 1.9% | 2 | 1.0% | 1 | 0.4% | -1 |
| Painter and Decorator | 4 | 2.1% | 1 | 0.6% | - | - | 2 | 1.0% | 1 | 0.4% | -1 |
| Plant & Equipment Operator (earthmoving machinery) | 2 | 1.1% | 2 | 1.2% | 1 | 0.5% | 2 | 1.0% | 1 | 0.4% | -1 |
| Plant & equipment Operator (Piling) | 1 | 0.5% | - | - | - | - | 2 | 1.0% | 1 | 0.4% | -1 |
| Excavator | - | - | - | - | 2 | 1.0% | 1 | 0.5% | 1 | 0.4% | - |
| Drainlayer/ Mainlayer | 1 | 0.5% | 1 | 0.6% | - | - | 1 | 0.5% | 1 | 0.4% | - |
| Joiner | 1 | 0.5% | 1 | 0.6% | 3 | 1.4% | 1 | 0.5% | 1 | 0.4% | - |
| Chainman | - | - | - | - | - | - | - | - | 1 | 0.4% | 1 |
| Drilling Assistant | 1 | 0.5% | 2 | 1.2% | - | - | - | - | 1 | 0.4% | 1 |
| Plant & Equipment Operator (builders lift & other machinery) | - | - | - | - | - | - | - | - | 1 | 0.4% | 1 |
| Concreting Labourer | - | - | - | - | - | - | - | - | 1 | 0.4% | 1 |

| Trades of Workers | 2019 | | 2020 | | 2021 | | 2022 | | 2023 | | |
|---|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|---------------------|
| | No. | % | No. | % | No. | % | No. | % | No. | % | Change ¹ |
| Diver | - | - | - | - | - | - | - | - | 1 | 0.4% | 1 |
| Ganger | 2 | 1.1% | - | - | 3 | 1.4% | 4 | 2.0% | - | - | -4 |
| Bamboo Scaffolder | - | - | - | - | - | - | 2 | 1.0% | - | - | -2 |
| Concretor | 4 | 2.1% | 1 | 0.6% | 3 | 1.4% | 1 | 0.5% | - | - | -1 |
| Bricklayer | - | - | - | - | - | - | - | - | - | - | - |
| Carpenter (fender) | - | - | 1 | 0.6% | - | - | - | - | - | - | - |
| Demolition worker | - | - | 1 | 0.6% | - | - | - | - | - | - | - |
| Pneumatic Driller | - | - | - | - | - | - | - | - | - | - | - |
| Structural Steel Erector | - | - | 1 | 0.6% | - | - | - | - | - | - | - |
| Tunnel Worker | 1 | 0.5% | - | - | 1 | 0.5% | - | - | - | - | - |
| Piling Operative | 1 | 0.5% | - | - | - | - | - | - | - | - | - |
| Mason | 1 | 0.5% | - | - | - | - | - | - | - | - | - |
| Plant & Equipment Operator (tunnelling) | - | - | - | - | - | - | 1 | 0.5% | - | - | -1 |
| Sub-total | 155 | 82.0% | 150 | 88.8% | 186 | 89.0% | 173 | 87.8% | 208 | 89.3% | 35 |
| Other Types | 34 | 18.0% | 19 | 11.2% | 23 | 11.0% | 24 | 12.2% | 25 | 10.7% | 1 |
| Total number of accidents | 189 | --- | 169 | --- | 209 | --- | 197 | --- | 233 | --- | 36 |

1 “Change” means the difference in no. of accidents between 2022 and 2023.

**No. of Accidents for Public Works Contracts from 2019 to 2023
Analyzed by Natures of Injury**

| Natures of Injury | 2019 | | 2020 | | 2021 | | 2022 | | 2023 | | |
|--|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|--------------------------|
| | No. | % | No. | % | No. | % | No. | % | No. | % | Change ¹ |
| Fracture | 60 | 26.9% | 42 | 20.8% | 71 | 28.5% | 75 | 31.4% | 73 | 27.1% | -2 |
| Contusion & Bruise | 48 | 21.5% | 60 | 29.7% | 58 | 23.3% | 71 | 29.7% | 62 | 23.0% | -9 |
| Sprain/ Strain/ Twist | 39 | 17.5% | 27 | 13.4% | 34 | 13.7% | 23 | 9.6% | 34 | 12.6% | 11 |
| Laceration and Cut | 35 | 15.7% | 23 | 11.4% | 30 | 12.0% | 28 | 11.7% | 32 | 11.9% | 4 |
| Crushing | 6 | 2.7% | 8 | 4.0% | 10 | 4.0% | 6 | 2.5% | 16 | 5.9% | 10 |
| Amputation | 1 | 0.4% | 2 | 1.0% | 2 | 0.8% | - | - | 6 | 2.2% | 6 |
| Abrasion | 9 | 4.0% | 11 | 5.4% | 4 | 1.6% | 8 | 3.3% | 5 | 1.9% | -3 |
| Burn (heat) | 3 | 1.3% | 5 | 2.5% | 5 | 2.0% | 2 | 0.8% | 5 | 1.9% | 3 |
| Burn/ Scald | - | - | - | - | - | - | 2 | 0.8% | 5 | 1.9% | 3 |
| Puncture | 2 | 0.9% | 1 | 0.5% | 2 | 0.8% | 1 | 0.4% | 2 | 0.7% | 1 |
| Dislocation | - | - | 4 | 2.0% | 5 | 2.0% | 1 | 0.4% | 2 | 0.7% | 1 |
| Electric Shock/ Effects of Electric Current | - | - | - | - | - | - | - | - | 2 | 0.7% | 2 |
| Concussion & Other Internal Injury | 3 | 1.3% | 2 | 1.0% | 2 | 0.8% | 2 | 0.8% | 1 | 0.4% | -1 |
| Irritation | - | - | 1 | 0.5% | 1 | 0.4% | 1 | 0.4% | 1 | 0.4% | - |
| Multiple Injuries | - | - | 2 | 1.0% | 2 | 0.8% | - | - | 1 | 0.4% | 1 |
| Asphyxia | - | - | - | - | - | - | - | - | - | - | - |
| Sub-total | 206 | 92.4% | 188 | 93.1% | 226 | 90.8% | 220 | 92.1% | 247 | 91.8% | 27 |
| Other Types | 17 | 7.6% | 14 | 6.9% | 23 | 9.2% | 19 | 7.9% | 22 | 8.2% | 3 |
| Total number of accidents² | 223 (189) | ----- | 202 (169) | ----- | 249 (209) | ----- | 239 (197) | ----- | 269 (233) | ----- | 30 (36) |

1 “Change” means the difference in no. of accidents between 2022 and 2023

2 The figures were the total sum of items “Nature of Injury Incurred 1”, “Nature of Injury Incurred 2” and “Nature of Injury Incurred 3” in the Injury Report Form. “()” is the total number of accidents of that year.

**No. of Accidents for Public Works Contracts from 2019 to 2023
Analyzed by Parts of Body Injured in Accidents**

| Parts of Body Injured | 2019 | | 2020 | | 2021 | | 2022 | | 2023 | | |
|--|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|--------------------------|
| | No. | % | No. | % | No. | % | No. | % | No. | % | Change ¹ |
| Finger | 45 | 20.2% | 34 | 16.8% | 51 | 20.6% | 40 | 16.9% | 62 | 23.0% | 22 |
| Back | 24 | 10.8% | 26 | 12.9% | 30 | 12.1% | 30 | 12.7% | 30 | 11.2% | - |
| Chest | 10 | 4.5% | 5 | 2.5% | 10 | 4.0% | 7 | 3.0% | 16 | 5.9% | 9 |
| Ankle | 17 | 7.6% | 15 | 7.4% | 7 | 2.8% | 12 | 5.1% | 15 | 5.6% | 3 |
| Skull/Scalp | 5 | 2.2% | 7 | 3.5% | 9 | 3.6% | 10 | 4.2% | 14 | 5.2% | 4 |
| Foot/ Toe | 18 | 8.1% | 6 | 3.0% | 21 | 8.5% | 14 | 5.9% | 13 | 4.8% | -1 |
| Hand/ Palm | 11 | 4.9% | 8 | 4.0% | 9 | 3.6% | 8 | 3.4% | 12 | 4.5% | 4 |
| Wrist | 5 | 2.2% | 16 | 7.9% | 7 | 2.8% | 4 | 1.7% | 12 | 4.5% | 8 |
| Knee | 7 | 3.1% | 11 | 5.4% | 7 | 2.8% | 8 | 3.4% | 12 | 4.5% | 4 |
| Leg | 12 | 5.4% | 12 | 5.9% | 14 | 5.6% | 22 | 9.3% | 10 | 3.7% | -12 |
| Face/ Cheek/ Chin | 10 | 4.5% | 5 | 2.5% | 8 | 3.2% | 2 | 0.8% | 9 | 3.3% | 7 |
| Shoulder | 10 | 4.5% | 5 | 2.5% | 10 | 4.0% | 9 | 3.8% | 8 | 3.0% | -1 |
| Elbow | 1 | 0.4% | 5 | 2.5% | 6 | 2.4% | 6 | 2.5% | 7 | 2.6% | 1 |
| Neck | 6 | 2.7% | 1 | 0.5% | 8 | 3.2% | 9 | 3.8% | 6 | 2.2% | -3 |
| Forearm | 8 | 3.6% | 5 | 2.5% | 5 | 2.0% | 7 | 3.0% | 6 | 2.2% | -1 |
| Hip | 5 | 2.2% | 5 | 2.5% | 6 | 2.4% | 5 | 2.1% | 5 | 1.9% | - |
| Thigh | 4 | 1.8% | 4 | 2.0% | 4 | 1.6% | 8 | 3.4% | 3 | 1.1% | -5 |
| Eye | 1 | 0.4% | 6 | 3.0% | 6 | 2.4% | 4 | 1.7% | 2 | 0.7% | -2 |
| Nose | - | - | 3 | 1.5% | 3 | 1.2% | 1 | 0.4% | 2 | 0.7% | 1 |
| Pelvis/ Groin | - | - | 2 | 1.0% | 2 | 0.8% | 4 | 1.7% | 2 | 0.7% | -2 |
| Upper Arm | 6 | 2.7% | 2 | 1.0% | - | - | 2 | 0.8% | 2 | 0.7% | - |
| Abdomen | - | - | 1 | 0.5% | 1 | 0.4% | 2 | 0.8% | 1 | 0.4% | -1 |
| Waist | 2 | 0.9% | 5 | 2.5% | 3 | 1.2% | 6 | 2.5% | 1 | 0.4% | -5 |
| Trunk | - | - | 1 | 0.5% | - | - | 2 | 0.8% | - | - | -2 |
| Mouth/ Tooth/ Lip | - | - | 4 | 2.0% | 3 | 1.2% | 1 | 0.4% | - | - | -1 |
| Ear | 1 | 0.4% | - | - | 1 | 0.4% | 3 | 1.3% | - | - | -3 |
| Sub-total | 208 | 93.3% | 194 | 96.0% | 231 | 93.1% | 226 | 95.8% | 250 | 92.9% | 24 |
| Other Types | 15 | 6.7% | 8 | 4.0% | 18 | 7.3% | 13 | 5.5% | 19 | 7.1% | 6 |
| Total number of accidents² | 223 (189) | ----- | 202 (169) | ----- | 248 (209) | ----- | 236 (197) | ----- | 269 (233) | ----- | 33 (36) |

¹ “Change” means the difference in no. of accidents between 2022 and 2023.

² The figures were the total sum of items “Body parts injured 1”, “Body parts injured 2” and “Body parts injured 3” in the Injury Report Form. “()” is the total number of accidents of that year.

**No. of Accidents for Public Works Contracts from 2019 to 2023
Analyzed by Agents Involved in Accidents**

| Agents Involved | 2019 | | 2020 | | 2021 | | 2022 | | 2023 | | Change ¹ |
|--|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|--------------------------|
| | No. | % | No. | % | No. | % | No. | % | No. | % | |
| Floor, Ground, Stairs or Any Working Surface | 39 | 20.2% | 34 | 18.7% | 33 | 15.1% | 44 | 21.7% | 45 | 17.9% | 1 |
| Material/ Product Being Handled or Stored (e.g. Plank, timber, rope etc.) | 25 | 13.0% | 28 | 15.4% | 49 | 22.4% | 34 | 16.7% | 38 | 15.1% | 4 |
| Steel Bar/ Rod | 1 | 0.5% | 3 | 1.6% | 6 | 2.7% | 4 | 2.0% | 18 | 7.2% | 14 |
| Portable Power or Hand Tools | 27 | 14.0% | 19 | 10.4% | 16 | 7.3% | 15 | 7.4% | 16 | 6.4% | 1 |
| Other Machinery (specify) | 5 | 2.6% | 6 | 3.3% | 9 | 4.1% | 11 | 5.4% | 8 | 3.2% | -3 |
| Vehicle or Associated Equipment or Machinery | 6 | 3.1% | 4 | 2.2% | 4 | 1.8% | - | - | 7 | 2.8% | 7 |
| Ladder or Working At Height | 4 | 2.1% | 11 | 6.0% | 12 | 5.5% | 5 | 2.5% | 6 | 2.4% | 1 |
| Equipment For Lifting/ Conveying | 6 | 3.1% | 8 | 4.4% | 4 | 1.8% | 4 | 2.0% | 6 | 2.4% | 2 |
| Construction Formwork, Shuttering & Falsework | 2 | 1.0% | 1 | 0.5% | 3 | 1.4% | - | - | 6 | 2.4% | 6 |
| Scaffolding/ Gondola | - | - | - | - | 4 | 1.8% | 1 | 0.5% | 3 | 1.2% | 2 |
| Excavation/ Underground Work | 2 | 1.0% | 1 | 0.5% | 4 | 1.8% | - | - | 3 | 1.2% | 3 |
| Slope | 3 | 1.6% | - | - | - | - | - | - | 3 | 1.2% | 3 |
| Pipe | 3 | 1.6% | - | - | 2 | 0.9% | - | - | 3 | 1.2% | 3 |
| Nail, Splinter or Chipping | - | - | - | - | - | - | 1 | 0.5% | 2 | 0.8% | 1 |
| Sewerage, Manhole or Other Confined Space | 1 | 0.5% | 2 | 1.1% | 5 | 2.3% | 1 | 0.5% | 2 | 0.8% | 1 |
| Movable Container or Package of Any Kind | - | - | 3 | 1.6% | - | - | 1 | 0.5% | - | - | -1 |
| Gas, Vapour, Dust or Fume | - | - | 1 | 0.5% | - | - | - | - | - | - | - |
| Electricity Supply, Wiring Apparatus or Equipment | 1 | 0.5% | 3 | 1.6% | 1 | 0.5% | 3 | 1.5% | - | - | -3 |
| Sub-total | 125 | 64.8% | 124 | 68.1% | 152 | 69.4% | 124 | 61.1% | 166 | 66.1% | 42 |
| Other Types | 68 | 35.2% | 58 | 31.9% | 67 | 30.6% | 79 | 38.9% | 85 | 33.9% | 6 |
| Total number of accidents ² | 193 (189) | ----- | 182 (169) | ----- | 219 (209) | ----- | 203 (197) | ----- | 251 (233) | ----- | 48 (36) |

¹ “Change” means the difference in no. of accidents between 2022 and 2023

² There were more records because multiple selection of “Agents Involved” was allowed. “()” is the total number of accidents of that year.

**No. of Accidents for Public Works Contracts from 2019 to 2023
Analyzed by Unsafe Actions Involved in Accidents**

| Unsafe Actions | 2019 | | 2020 | | 2021 | | 2022 | | 2023 | | |
|--|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|--------------------------|
| | No. | % | No. | % | No. | % | No. | % | No. | % | Change ¹ |
| Lapse Of Attention | 65 | 31.4% | 50 | 26.0% | 60 | 25.4% | 67 | 30.6% | 82 | 30.4% | 15 |
| Adopting Unsafe Position or Posture | 31 | 15.0% | 32 | 16.7% | 35 | 14.8% | 32 | 14.6% | 43 | 15.9% | 11 |
| Use Unsuitable Access/ Failure To Use Access | 7 | 3.4% | 6 | 3.1% | 12 | 5.1% | 9 | 4.1% | 13 | 4.8% | 4 |
| Use Unsafe Equipment/ Use Equipment Unsafely | 9 | 4.3% | 14 | 7.3% | 10 | 4.2% | 10 | 4.6% | 11 | 4.1% | 1 |
| Failure To Secure Objects | 15 | 7.2% | 15 | 7.8% | 10 | 4.2% | 15 | 6.8% | 9 | 3.3% | -6 |
| Unsafe Loading, Placing, Mixing etc. | 3 | 1.4% | 4 | 2.1% | 9 | 3.8% | 4 | 1.8% | 6 | 2.2% | 2 |
| Failure To Warn Others or Give Proper Signals | 2 | 1.0% | 3 | 1.6% | 2 | 0.8% | 3 | 1.4% | 4 | 1.5% | 1 |
| Failure To Use Gloves | 3 | 1.4% | 5 | 2.6% | 4 | 1.7% | 2 | 0.9% | 4 | 1.5% | 2 |
| Operating Without Authority | 2 | 1.0% | 1 | 0.5% | 4 | 1.7% | 2 | 0.9% | 3 | 1.1% | 1 |
| Working On Moving or Dangerous Equipment | - | - | 1 | 0.5% | 2 | 0.8% | 1 | 0.5% | 3 | 1.1% | 2 |
| Operating or Working At Unsafe Speed | - | - | - | - | - | - | - | - | 3 | 1.1% | 3 |
| Failure To Use Helmet | - | - | 1 | 0.5% | 4 | 1.7% | - | - | 2 | 0.7% | 2 |
| Failure To Use Safety Belt/ Harness | 1 | 0.5% | 2 | 1.0% | 2 | 0.8% | 3 | 1.4% | 1 | 0.4% | -2 |
| Failure To Use Proper Footwear | 3 | 1.4% | 2 | 1.0% | 3 | 1.3% | 2 | 0.9% | 1 | 0.4% | -1 |
| Failure To Use Eye Protector | - | - | 1 | 0.5% | 3 | 1.3% | - | - | 1 | 0.4% | 1 |
| Failure To use Proper Clothing | - | - | 1 | 0.5% | 1 | 0.4% | - | - | 1 | 0.4% | 1 |
| Making Safety Devices Inoperative | - | - | - | - | - | - | 1 | 0.5% | - | - | -1 |
| Sub-total | 141 | 68.1% | 138 | 71.9% | 161 | 68.2% | 151 | 68.9% | 187 | 69.3% | 36 |
| Other Types | 66 | 31.9% | 54 | 28.1% | 75 | 31.8% | 68 | 31.1% | 83 | 30.7% | 15 |
| Total sum of “Unsafe Actions”² | 207 (189) | ----- | 192 (169) | ----- | 236 (209) | ----- | 219 (197) | ----- | 270 (233) | ----- | 51 (36) |

¹ “Change” means the difference in no. of accidents between 2022 and 2023

² There were more records because multiple selection of “Unsafe Actions” was allowed. “()” is the total number of accidents of that year.

**No. of Accidents for Public Works Contracts from 2019 to 2023
Analyzed by Unsafe Conditions Involved in Accidents**

| Unsafe Conditions | 2019 | | 2020 | | 2021 | | 2022 | | 2023 | | Change ¹ |
|---|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|--------------------------|
| | No. | % | No. | % | No. | % | No. | % | No. | % | |
| Unsafe Process or Job Methods | 26 | 12.8% | 16 | 8.4% | 29 | 12.9% | 23 | 10.3% | 34 | 12.8% | 11 |
| Improper Procedure | 16 | 7.9% | 18 | 9.5% | 27 | 12.1% | 27 | 12.1% | 32 | 12.1% | 5 |
| Slippery Area | 9 | 4.4% | 12 | 6.3% | 13 | 5.8% | 14 | 6.3% | 20 | 7.5% | 6 |
| Poor Housekeeping | 9 | 4.4% | 11 | 5.8% | 8 | 3.6% | 17 | 7.6% | 16 | 6.0% | -1 |
| Inadequate Working Space/ Platform | 6 | 3.0% | 11 | 5.8% | 9 | 4.0% | 11 | 4.9% | 12 | 4.5% | 1 |
| Improper Stacking/ Storage | 8 | 3.9% | 17 | 8.9% | 11 | 4.9% | 10 | 4.5% | 11 | 4.2% | 1 |
| Inadequate Tools and Protective Equipment | 4 | 2.0% | 2 | 1.1% | 2 | 0.9% | 7 | 3.1% | 10 | 3.8% | 3 |
| Lack Of Warning System | 6 | 3.0% | 3 | 1.6% | 4 | 1.8% | 8 | 3.6% | 9 | 3.4% | 1 |
| No Protective Gear | - | - | 7 | 3.7% | 2 | 0.9% | 1 | 0.4% | 4 | 1.5% | 3 |
| Improper Guarding/ No Guarding | 2 | 1.0% | 3 | 1.6% | 3 | 1.3% | 7 | 3.1% | 3 | 1.1% | -4 |
| Defective Tool, Machinery or Material | 6 | 3.0% | 2 | 1.1% | 4 | 1.8% | 6 | 2.7% | 3 | 1.1% | -3 |
| Defective Protective Gear | 1 | 0.5% | 1 | 0.5% | 1 | 0.4% | - | - | 2 | 0.8% | 2 |
| Adverse Weather | 1 | 0.5% | 2 | 1.1% | - | - | 2 | 0.9% | 1 | 0.4% | -1 |
| Unsafe Layout Of Job, Traffic etc. | - | - | 2 | 1.1% | 1 | 0.4% | 1 | 0.4% | 1 | 0.4% | - |
| Improper Dress/ Footwear | 2 | 1.0% | 1 | 0.5% | 2 | 0.9% | - | - | 1 | 0.4% | 1 |
| Improper Illumination | - | - | - | - | 1 | 0.4% | 1 | 0.4% | - | - | -1 |
| Sub-total | 96 | 47.3% | 108 | 56.8% | 117 | 52.2% | 135 | 60.3% | 159 | 60.0% | 24 |
| Other Types | 107 | 52.7% | 82 | 43.2% | 107 | 47.8% | 89 | 39.7% | 106 | 40.0% | 17 |
| Total number of accidents ² | 203 (189) | ----- | 190 (169) | ----- | 224 (209) | ----- | 224 (197) | ----- | 265 (233) | ----- | 41 (36) |

1 “Change” means the difference in no. of accidents between 2022 and 2023.

2 There were more records because multiple selection of “Unsafe Conditions Involved” was allowed. “()” is the total number of accidents of that year.

**No. of Accidents for Public Works Contracts from 2019 to 2023
Analyzed by Personal Factors Involved in Accidents**

| Personal Factors Involved | 2019 | | 2020 | | 2021 | | 2022 | | 2023 | | |
|---|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|----------------------------|--------------|--------------------------|
| | No. | % | No. | % | No. | % | No. | % | No. | % | Change ¹ |
| Carelessness/ Not Concentrate | 119 | 55.9% | 96 | 50.5% | 118 | 51.5% | 130 | 58.6% | 142 | 51.4% | 12 |
| Incorrect Attitude/ Motive | 24 | 11.3% | 23 | 12.1% | 23 | 10.0% | 24 | 10.8% | 32 | 11.6% | 8 |
| Lack Of Knowledge or Skill | 22 | 10.3% | 16 | 8.4% | 22 | 9.6% | 21 | 9.5% | 30 | 10.9% | 9 |
| Unsafe Act By Another Person | 3 | 1.4% | 17 | 8.9% | 12 | 5.2% | 6 | 2.7% | 14 | 5.1% | 8 |
| Physical Defects | 3 | 1.4% | 2 | 1.1% | 1 | 0.4% | 1 | 0.5% | 4 | 1.4% | 3 |
| Fatigue/ Exhaustion | 2 | 0.9% | 1 | 0.5% | 2 | 0.9% | 2 | 0.9% | - | - | -2 |
| Sub-total | 173 | 81.2% | 155 | 81.6% | 178 | 76.1% | 184 | 82.9% | 222 | 80.4% | 38 |
| Other Types | 40 | 18.8% | 35 | 18.4% | 56 | 23.9% | 38 | 17.1% | 54 | 19.6% | 16 |
| Total number of accidents ² | 213 (189) | ----- | 190 (169) | ----- | 234 (209) | ----- | 222 (197) | ----- | 276 (233) | ----- | 54 (36) |

1 “Change” means the difference in no. of accidents between 2022 and 2023.

2 There are more records than the number of accidents because multiple selection of “Person Factors Involved” was allowed. “()” is the total number of accidents of that year.