

**Accident Rates for Public Works Contracts and the Construction Industry from 2011 to 2020**

Year <sup>1</sup>	Public Works Contracts			Accident Rates					
				Fatal Accidents			Reportable Accidents		
	No. of Fatalities	No. of Non-fatal Reportable Accidents <sup>2</sup>	No. of Man-hours Worked for <sup>3</sup>	Public Works Contracts		Construction Industry	Public Works Contracts		Construction Industry
				a <sup>4</sup>	b <sup>5</sup>	c <sup>6</sup>	a <sup>4</sup>	b <sup>5</sup>	c <sup>6</sup>
2011	7	374	112,147,350.2	0.006	0.22	0.37	0.33	12.21	49.7
2012	7	320	109,572,280.2	0.006	0.23	0.34	0.29	10.72	44.3
2013	5	238	104,440,354.7	0.005	0.17	0.28	0.23	8.36	40.8
2014	5	248	107,492,392.9	0.005	0.17	0.27	0.23	8.46	41.9
2015	4	287	107,550,537.8	0.004	0.13	0.20	0.27	9.72	39.1
2016	4	314	108,949,465.3	0.004	0.13	0.11	0.29	10.49	34.5
2017	6	411	124,243,025.5	0.005	0.17	0.19	0.34	12.06	32.9
2018	1	379	118,297,514.2	0.001	0.03	0.13	0.32	11.54	31.7
2019	0	187	101,136,311.2	0.000	0.00	0.16	0.18	6.64	29.0
2020	4	154	100,085,717.4	0.004	0.14	0.19	0.16	5.67	26.1

<sup>1</sup> The figures for 2020 are captured as at 2 June 2021.

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

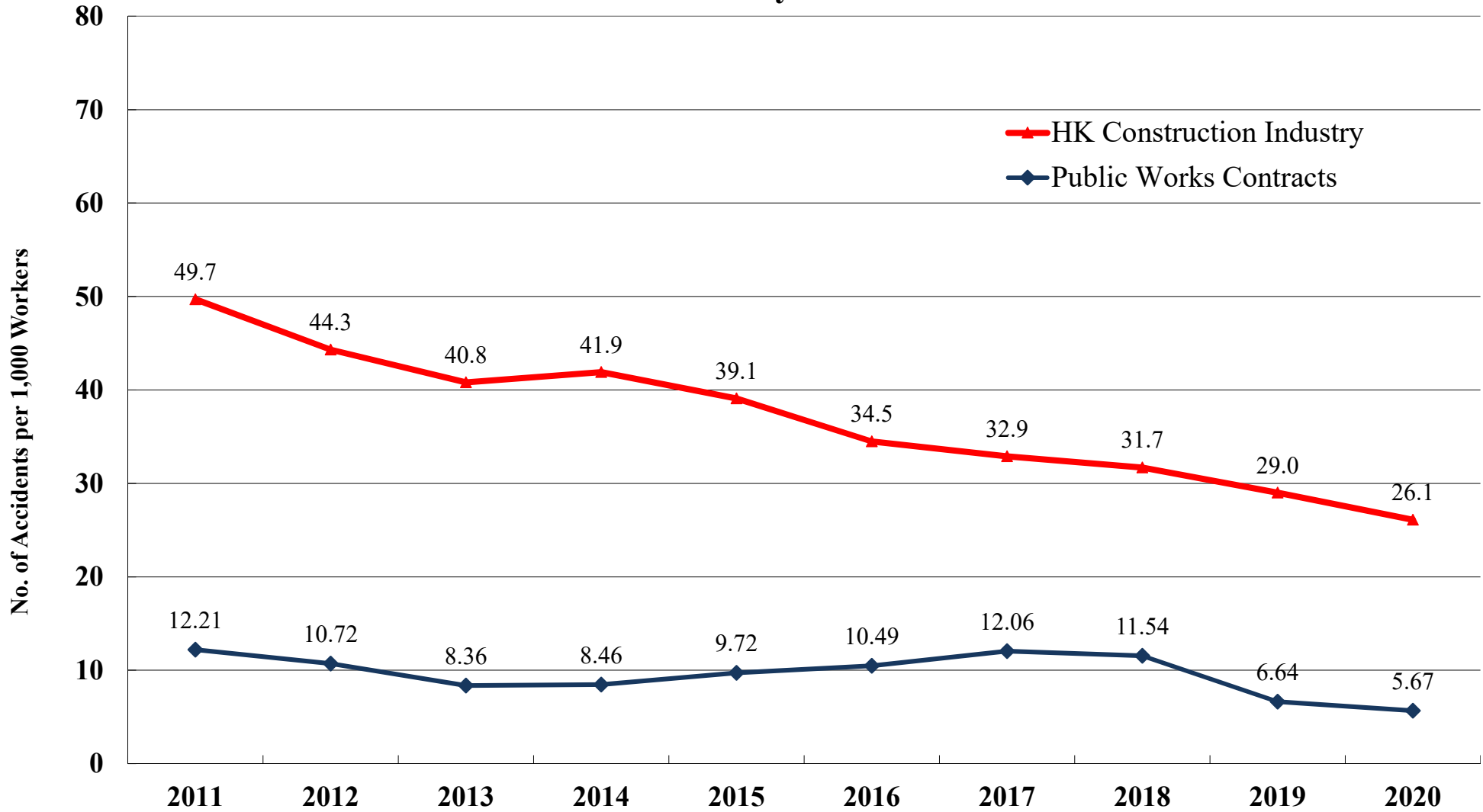
<sup>3</sup> The “man-hours worked” means the man-hours worked by all persons employed on the works whether in the employ of main contractor and his sub-contractors who are exposed to the risks on the sites, including supervisory staff, site agent and engineer(s), workers, watchman etc.

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

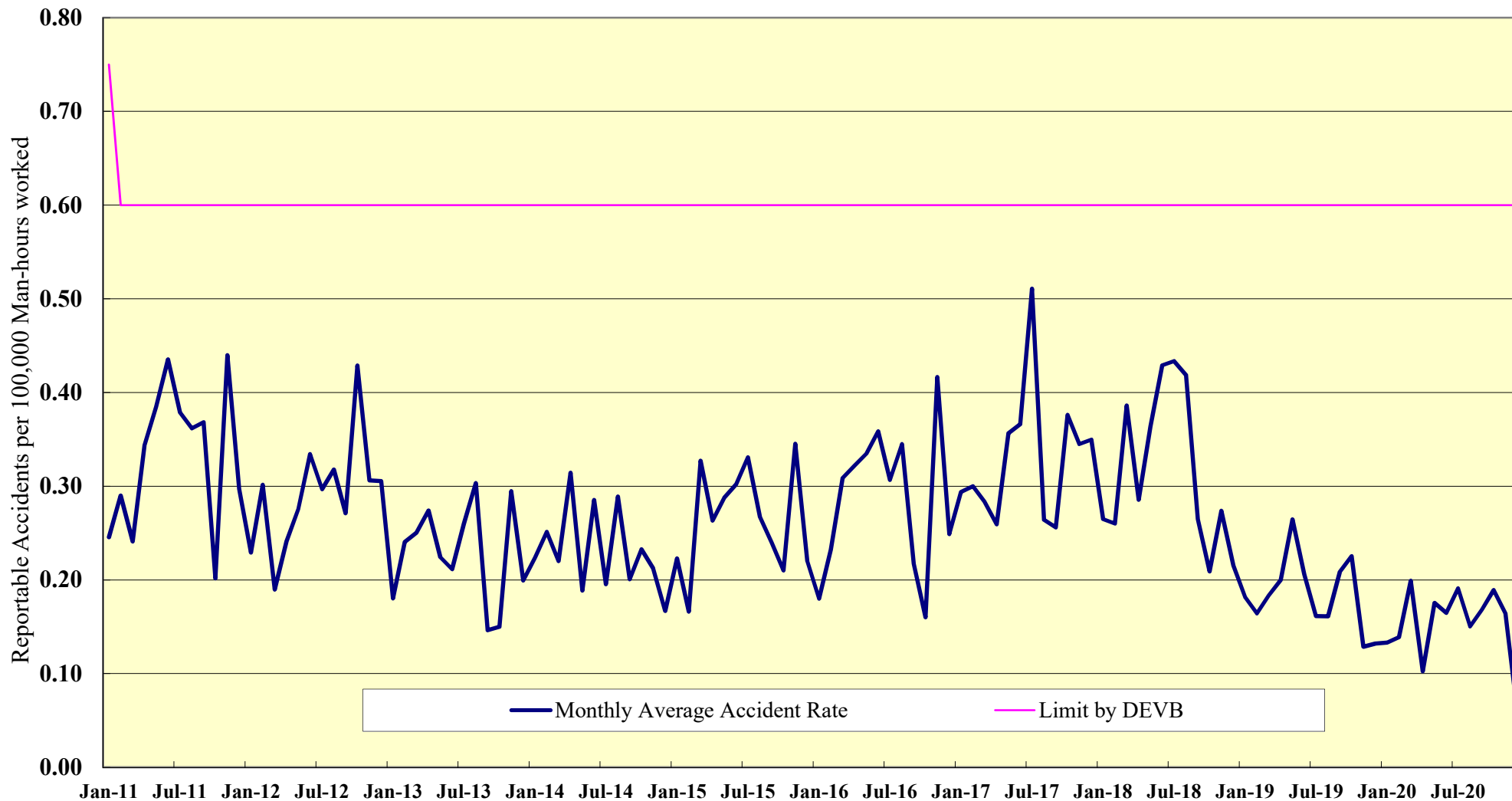
<sup>5</sup> The accident rates for columns marked with (b) are given in term of no. of accidents per 1,000 workers per year based on a conversion of 1.67 accidents per 100,000 man-hours worked equivalent to 60 accidents per 1,000 workers per year.

<sup>6</sup> 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 2011 to 2020**



**Chart of Monthly Average Accident Rates  
for Public Works Contracts from January 2011 to December 2020**



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 2011 to 2020**

**(A) No. of Fatalities**

<b>Department</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
ArchSD	2	4	0	1	0	2	1	0	0	1
CEDD	2	1	0	0	0	0	0	1	0	2
DSD	1	0	2	0	1	0	1	0	0	0
EMSD	0	0	0	0	0	0	0	0	0	0
HyD	1	2	1	4	3	2	2	0	0	1
WSD	1	0	2	0	0	0	2	0	0	0
<b>Total</b>	<b>7</b>	<b>7</b>	<b>5</b>	<b>5</b>	<b>4</b>	<b>4</b>	<b>6</b>	<b>1</b>	<b>0</b>	<b>4</b>

**(B) No. of Non-fatal accidents**

<b>Department</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
ArchSD	195	130	68	80	98	71	103	154	81	57
CEDD	31	27	26	30	32	47	64	74	40	33
DSD	66	46	28	20	20	11	16	9	8	14
EMSD	12	21	15	4	8	9	10	3	5	8
HyD	35	58	68	94	107	152	198	123	41	36
WSD	35	38	33	20	22	24	20	16	12	6
<b>Total</b>	<b>374</b>	<b>320</b>	<b>238</b>	<b>248</b>	<b>287</b>	<b>314</b>	<b>411</b>	<b>379</b>	<b>187</b>	<b>154</b>

**Accident Rates for Public Works Contracts**  
**with Breakdown by Works Departments from 2011 to 2020**

Department		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
ArchSD	a <sup>1</sup>	0.51	0.41	0.27	0.30	0.34	0.27	0.31	0.42	0.27	0.20
	b <sup>2</sup>	18.26	14.87	9.64	10.90	12.21	9.72	11.13	15.16	9.53	7.09
CEDD	a <sup>1</sup>	0.20	0.18	0.19	0.19	0.18	0.23	0.27	0.30	0.17	0.14
	b <sup>2</sup>	7.09	6.45	6.95	6.91	6.63	8.25	9.73	10.94	6.15	5.15
DSD	a <sup>1</sup>	0.36	0.24	0.16	0.14	0.19	0.13	0.23	0.13	0.11	0.17
	b <sup>2</sup>	13.11	8.64	5.83	5.00	6.96	4.81	8.35	4.80	4.00	6.08
EMSD	a <sup>1</sup>	0.21	0.33	0.23	0.06	0.10	0.13	0.16	0.04	0.06	0.10
	b <sup>2</sup>	7.49	11.93	8.33	2.03	3.65	4.57	5.67	1.54	2.33	3.58
HyD	a <sup>1</sup>	0.18	0.25	0.25	0.32	0.34	0.44	0.46	0.36	0.17	0.18
	b <sup>2</sup>	6.43	9.01	8.99	11.41	12.35	15.72	16.51	12.77	6.20	6.46
WSD	a <sup>1</sup>	0.24	0.26	0.22	0.14	0.18	0.22	0.22	0.18	0.14	0.06
	b <sup>2</sup>	8.57	9.39	8.03	4.96	6.57	7.85	8.02	6.51	5.02	2.30
All Dept.	a <sup>1</sup>	0.33	0.29	0.23	0.23	0.27	0.29	0.34	0.32	0.18	0.16
	b <sup>2</sup>	12.21	10.72	8.36	8.46	9.72	10.49	12.06	11.54	6.64	5.67
HA <sup>3,4</sup>	b <sup>3,4</sup>	9.0/7.3	7.4/4.8	7.3/4.1	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
Construction Industry <sup>3</sup>	b <sup>3</sup>	49.7	44.3	40.8	41.9	39.1	34.5	32.9	31.7	29.0	26.1

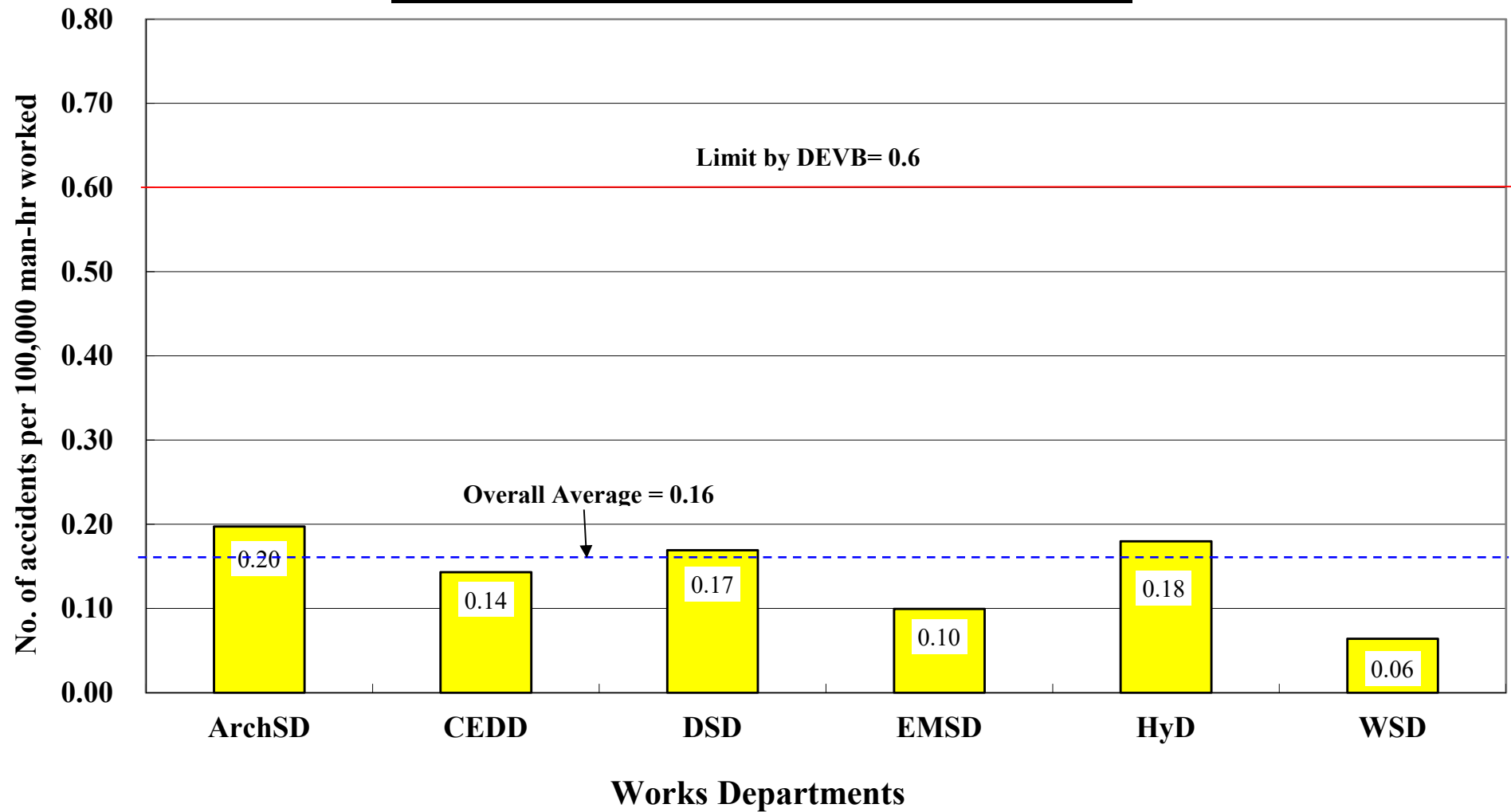
<sup>1</sup> The accident rates for columns marked with (a) are given in term of no. of accidents per 100,000 man-hours worked.

<sup>2</sup> 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.

<sup>3</sup> 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.

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

**Accident Rates for Public Works Contracts in 2020**



**Severity for Public Works Contracts with Breakdown by Works Department from 2016 to 2020**

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

<b>Department</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
<b>ArchSD</b>	74.6	60.1	81.8	72.5	52.5
<b>CEDD</b>	53.5	62.9	100.9	96.8	53.8
<b>DSD</b>	46.5	46.3	55.6	36.1	34.5
<b>EMSD</b>	11.6	7.4	11.9	11.9	9.9
<b>HyD</b>	73.9	71.1	92.1	51.9	38.4
<b>WSD</b>	9.2	32.0	58.2	40.4	24.4
<b>All Departments</b>	57.6	58.7	81.4	63.3	42.4

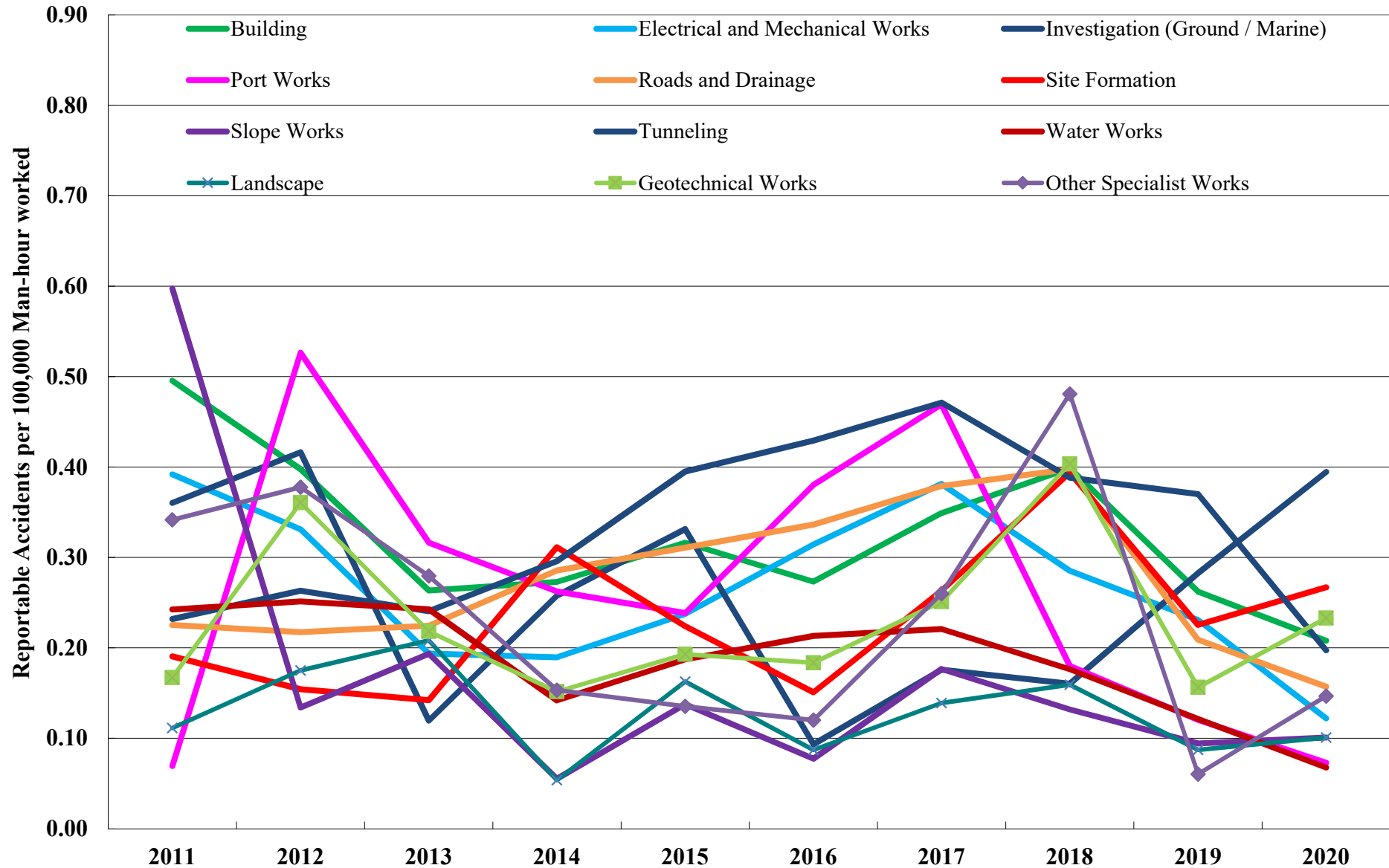
**Accident Rates for Public Works Contracts from 2011 to 2020**  
**Analyzed by Types of Contracts**

Types of Contracts	Accident Rates (in no. of accidents per 1,000 workers per year)										
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Change <sup>1</sup>
Investigation (Ground / Marine)	12.9	15.0	4.3	9.3	8.9	3.4	6.3	5.8	10.2	14.2	39.6%
Site Formation	6.2	4.8	5.1	11.2	8.0	5.4	9.5	14.1	8.1	9.6	18.5%
Geotechnical Works	5.3	12.5	7.8	4.8	6.7	6.6	9.0	14.5	5.6	8.4	48.9%
Building	17.6	13.9	9.3	9.7	11.3	9.8	12.5	14.3	9.4	7.5	-20.7%
Tunneling	8.3	9.5	8.6	10.6	13.5	15.4	16.9	13.9	13.3	7.1	-46.7%
Roads and Drainage	7.8	7.6	7.9	10.1	10.9	12.1	13.6	14.3	7.5	5.6	-24.9%
Electrical and Mechanical Works	14.1	11.7	6.4	6.8	8.2	11.3	13.7	10.2	8.3	4.4	-47.1%
Slope Works	21.5	4.8	7.0	2.0	4.9	2.8	6.3	4.7	3.4	3.6	6.9%
Landscape	4.0	6.3	7.5	1.9	5.8	3.1	5.0	5.7	3.1	3.6	15.7%
Port Works	2.5	18.1	11.4	8.4	8.6	13.7	16.9	6.5	4.3	2.6	-39.3%
Water Works	8.5	9.0	8.2	5.1	6.7	7.7	7.9	6.3	4.4	2.4	-44.4%
Other Specialist Works	11.2	13.6	10.0	5.5	4.9	4.3	9.3	17.3	2.2	5.3	143.2%
<b>All Contracts</b>	<b>12.2</b>	<b>10.7</b>	<b>8.4</b>	<b>8.5</b>	<b>9.7</b>	<b>10.5</b>	<b>12.1</b>	<b>11.5</b>	<b>6.6</b>	<b>5.7</b>	<b>-14.6%</b>

<sup>1</sup> The “Change” is the percentage difference in accident rates between 2019 and 2020.



### Accident Rates for Public Works Contracts Analyzed by Types of Contracts from 2011 to 2020



**No. of Accidents for Public Works Contracts from 2016 to 2020**  
**Analyzed by Types of Accidents**

Types of Accidents	2016		2017		2018		2019		2020		
	No.	%	No.	%	No.	%	No.	%	No.	%	Change <sup>1</sup>
Slip, Trip or Fall On Same Level	60	19.0%	82	19.8%	85	22.0%	35	18.7%	35	22.2%	-
Struck By Moving or Falling Object	29	9.2%	30	7.2%	36	9.5%	18	9.6%	24	15.2%	6
Injured Whilst Lifting or Carrying/ Manual Lifting/ Manual Handling/ Handling Without Machinery	40	12.7%	59	14.3%	57	15.0%	29	15.5%	20	12.7%	-9
Fall of Person From Height	30	9.5%	32	7.7%	23	6.1%	18	9.6%	11	7.0%	-7
Striking Against Moving Object	12	3.8%	7	1.7%	7	1.8%	5	2.7%	10	6.3%	5
Trapped In or Between Objects	20	6.3%	35	8.5%	21	5.5%	11	5.9%	8	5.1%	-3
Striking Against Fixed or Stationary Object	17	5.4%	21	5.1%	21	5.5%	8	4.3%	8	5.1%	-
Hand Tool Accident	16	5.1%	19	4.6%	23	6.1%	21	11.2%	7	4.4%	-14
Contact With Moving Machinery or Object Being Machined	7	2.2%	7	1.7%	8	2.1%	8	4.3%	3	1.9%	-5
Dust/ Foreign Particle In Eye	4	1.3%	7	1.7%	4	1.1%	-	-	3	1.9%	3
Struck By Moving Vehicle/ Traffic Accident	1	0.3%	3	0.7%	1	0.3%	1	0.5%	2	1.3%	1
Crushing/ Burial	2	0.6%	-	-	1	0.3%	-	-	2	1.3%	2
Machinery Operation Accident	2	0.6%	1	0.2%	4	1.1%	1	0.5%	2	1.3%	1
Stepping On Object/ Nail	-	-	2	0.5%	5	1.3%	1	0.5%	1	0.6%	-
Exposure To Fire/ Burning	2	0.6%	5	1.2%	1	0.3%	-	-	1	0.6%	1
Exposure To or Contact With Harmful Substance (e.g. poison gas, toxic or corrosive substance)	1	0.3%	-	-	2	0.5%	-	-	-	-	-
Contact With Electricity or Electric Discharge	2	0.6%	-	-	-	-	-	-	-	-	-
Trapped By Collapsing or Overturning Object	2	0.6%	9	2.2%	4	1.1%	1	0.5%	-	-	-1
Drowning or Asphyxiation	1	0.3%	2	0.5%	-	-	-	-	-	-	-
Exposure To Explosion	2	0.6%	-	-	-	-	-	-	-	-	-
<b>Sub-total</b>	<b>250</b>	<b>78.62%</b>	<b>321</b>	<b>76.98%</b>	<b>303</b>	<b>79.74%</b>	<b>157</b>	<b>84.0%</b>	<b>137</b>	<b>86.7%</b>	<b>-20</b>
<b>Other Types</b>	<b>68</b>	<b>21.38%</b>	<b>96</b>	<b>23.02%</b>	<b>77</b>	<b>20.26%</b>	<b>30</b>	<b>16.0%</b>	<b>21</b>	<b>13.3%</b>	<b>-9</b>
<b>Total number of accidents</b>	<b>318</b>	<b>-</b>	<b>417</b>	<b>-</b>	<b>380</b>	<b>-</b>	<b>187</b>	<b>-</b>	<b>158</b>	<b>-</b>	<b>-29</b>

1 "Change" means the difference in no. of accidents between 2019 and 2020

**No. of Accidents for Public Works Contracts from 2016 to 2020**  
**Analyzed by Trades of Workers**

Trades of Workers	2016		2017		2018		2019		2020		Change <sup>1</sup>
	No.	%	No.	%	No.	%	No.	%	No.	%	
Labourer	163	51.3%	205	49.2%	194	51.1%	84	44.9%	72	45.6%	-12
Carpenter (Formworker)	16	5.0%	24	5.8%	23	6.1%	13	7.0%	14	8.9%	1
Rigger/ Metal Formwork Erector	10	3.1%	16	3.8%	15	3.9%	5	2.7%	13	8.2%	8
Manager/ Site Engineer/ General Foreman	5	1.6%	6	1.4%	4	1.1%	7	3.7%	6	3.8%	-1
Bar Bender and Fixer	7	2.2%	-	-	6	1.6%	2	1.1%	6	3.8%	4
Metal Scaffolder	7	2.2%	18	4.3%	11	2.9%	3	1.6%	5	3.2%	2
Truck and Other Vehicle Driver	4	1.3%	4	1.0%	1	0.3%	1	0.5%	4	2.5%	3
Building Services/ E&M Worker	15	4.7%	14	3.4%	7	1.8%	5	2.7%	3	1.9%	-2
Drilling Assistant	1	0.3%	1	0.2%	-	-	1	0.5%	2	1.3%	1
Construction/ Mechanical Plant Mechanic or Fitter	3	0.9%	6	1.4%	3	0.8%	3	1.6%	2	1.3%	-1
General Welder	5	1.6%	8	1.9%	9	2.4%	3	1.6%	2	1.3%	-1
Leveller	2	0.6%	-	-	-	-	1	0.5%	2	1.3%	1
Plant & Equipment Operator (Earthmoving Machinery)	3	0.9%	2	0.5%	1	0.3%	2	1.1%	2	1.3%	-
Carpenter (Fender)	1	0.3%	1	0.2%	-	-	-	-	1	0.6%	1
Concretor	4	1.3%	5	1.2%	1	0.3%	4	2.1%	1	0.6%	-3
Drainlayer/ Mainlayer	2	0.6%	1	0.2%	-	-	1	0.5%	1	0.6%	-
Demolition worker	1	0.3%	-	-	-	-	-	-	1	0.6%	1
Joiner	1	0.3%	-	-	-	-	1	0.5%	1	0.6%	-
Metal Worker	-	-	5	1.2%	2	0.5%	2	1.1%	1	0.6%	-1
Painter and Decorator	2	0.6%	3	0.7%	2	0.5%	4	2.1%	1	0.6%	-3
Structural Steel Erector	1	0.3%	-	-	1	0.3%	-	-	1	0.6%	1
Ganger	2	0.6%	2	0.5%	3	0.8%	2	1.1%	-	-	-2
Chainman	1	0.3%	4	1.0%	-	-	-	-	-	-	-
Concreting Labourer	-	-	3	0.7%	2	0.5%	-	-	-	-	-

Trades of Workers	2016		2017		2018		2019		2020		
	No.	%	No.	%	No.	%	No.	%	No.	%	Change <sup>1</sup>
Excavator	2	0.6%	5	1.2%	2	0.5%	-	-	-	-	-
Bamboo Scaffolder	-	-	19	4.6%	3	0.8%	-	-	-	-	-
Bricklayer	1	0.3%	-	-	-	-	-	-	-	-	-
Mason	-	-	-	-	-	-	1	0.5%	-	-	-1
Piling Operative	-	-	-	-	3	0.8%	1	0.5%	-	-	-1
Plant & Equipment Operator (Builders Lift and Other Machinery)	1	0.3%	1	0.2%	-	-	-	-	-	-	-
Plant & Equipment Operator (Hoist and Crane)	3	0.9%	3	0.7%	3	0.8%	4	2.1%	-	-	-4
Plant & Equipment Operator (Piling)	-	-	-	-	-	-	1	0.5%	-	-	-1
Plasterer	1	0.3%	1	0.2%	4	1.1%	2	1.1%	-	-	-2
Plumber	2	0.6%	2	0.5%	10	2.6%	-	-	-	-	-
Pneumatic Driller	1	0.3%	1	0.2%	-	-	-	-	-	-	-
Tunnel Worker	-	-	1	0.2%	-	-	1	0.5%	-	-	-1
<b>Sub-total</b>	<b>267</b>	<b>84.0%</b>	<b>361</b>	<b>86.6%</b>	<b>310</b>	<b>81.6%</b>	<b>154</b>	<b>82.4%</b>	<b>141</b>	<b>89.2%</b>	<b>-13</b>
<b>Other Types</b>	<b>51</b>	<b>16.0%</b>	<b>56</b>	<b>13.4%</b>	<b>70</b>	<b>18.4%</b>	<b>33</b>	<b>17.6%</b>	<b>17</b>	<b>10.8%</b>	<b>-16</b>
<b>Total number of accidents</b>	<b>318</b>	<b>-----</b>	<b>417</b>	<b>-----</b>	<b>380</b>	<b>-----</b>	<b>187</b>	<b>-----</b>	<b>158</b>	<b>-----</b>	<b>-29</b>

1 “Change” means the difference in no. of accidents between 2019 and 2020.

**No. of Accidents for Public Works Contracts from 2016 to 2020**  
**Analyzed by Natures of Injury**

Natures of Injury	2016		2017		2018		2019		2020		
	No.	%	No.	%	No.	%	No.	%	No.	%	Change <sup>1</sup>
Contusion & Bruise	85	23.9%	82	17.1%	96	21.9%	46	20.8%	55	30.7%	9
Fracture	81	22.8%	111	23.2%	109	24.9%	60	27.1%	42	23.5%	-18
Sprain/ Strain/ Twist	56	15.8%	76	15.9%	76	17.4%	39	17.6%	25	14.0%	-14
Laceration and Cut	32	9.0%	48	10.0%	52	11.9%	35	15.8%	22	12.3%	-13
Abrasion	15	4.2%	27	5.6%	12	2.7%	9	4.1%	10	5.6%	1
Crushing	6	1.7%	17	3.5%	12	2.7%	6	2.7%	8	4.5%	2
Burn (heat)	-	-	5	1.0%	1	0.2%	3	1.4%	5	2.8%	2
Dislocation	3	0.8%	6	1.3%	5	1.1%	-	-	4	2.2%	4
Amputation	2	0.6%	4	0.8%	2	0.5%	1	0.5%	2	1.1%	1
Concussion & Other Internal Injury	2	0.6%	-	-	4	0.9%	3	1.4%	2	1.1%	-1
Multiple Injuries	2	0.6%	10	2.1%	8	1.8%	-	-	2	1.1%	2
Puncture	3	0.8%	3	0.6%	3	0.7%	2	0.9%	1	0.6%	-1
Irritation	4	1.1%	5	1.0%	2	0.5%	-	-	1	0.6%	1
Asphyxia	1	0.3%	-	-	-	-	-	-	-	-	-
Burn/ Scald	2	0.6%	1	0.2%	4	0.9%	-	-	-	-	-
Electric Shock/ Effects of Electric Current	1	0.3%	-	-	-	-	-	-	-	-	-
<b>Sub-total</b>	<b>295</b>	<b>83.1%</b>	<b>395</b>	<b>82.5%</b>	<b>386</b>	<b>88.1%</b>	<b>204</b>	<b>92.3%</b>	<b>179</b>	<b>100.0%</b>	<b>-25</b>
<b>Other Types</b>	<b>60</b>	<b>16.9%</b>	<b>84</b>	<b>17.5%</b>	<b>52</b>	<b>11.9%</b>	<b>17</b>	<b>7.7%</b>	<b>-</b>	<b>-</b>	<b>-17</b>
<b>Total number of accidents<sup>2</sup></b>	<b>335</b> <b>(318)</b>	<b>-----</b>	<b>479</b> <b>(417)</b>	<b>-----</b>	<b>438</b> <b>(380)</b>	<b>-----</b>	<b>221</b> <b>(187)</b>	<b>-----</b>	<b>179</b> <b>(158)</b>	<b>-----</b>	<b>-42</b> <b>(-29)</b>

1 “Change” means the difference in no. of accidents between 2019 and 2020

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 2016 to 2020**  
**Analyzed by Parts of Body Injured in Accidents**

Parts of Body Injured	2016		2017		2018		2019		2020		Change <sup>1</sup>
	No.	%	No.	%	No.	%	No.	%	No.	%	
Finger	69	19.3%	88	18.4%	83	18.9%	45	20.4%	33	17.4%	-12
Back	36	10.1%	56	11.7%	54	12.3%	24	10.9%	24	12.6%	-
Wrist	14	3.9%	14	2.9%	16	3.7%	4	1.8%	16	8.4%	12
Ankle	20	5.6%	22	4.6%	27	6.2%	17	7.7%	14	7.4%	-3
Leg	12	3.4%	22	4.6%	20	4.6%	12	5.4%	11	5.8%	-1
Knee	11	3.1%	21	4.4%	14	3.2%	7	3.2%	9	4.7%	2
Hand/ Palm	17	4.7%	25	5.2%	19	4.3%	11	5.0%	8	4.2%	-3
Skull/Scalp	8	2.2%	21	4.4%	17	3.9%	5	2.3%	7	3.7%	2
Eye	13	3.6%	10	2.1%	10	2.3%	1	0.5%	6	3.2%	5
Foot/ Toe	13	3.6%	17	3.5%	21	4.8%	18	8.1%	6	3.2%	-12
Face/ Cheek/ Chin	8	2.2%	10	2.1%	6	1.4%	10	4.5%	5	2.6%	-5
Forearm	8	2.2%	16	3.3%	17	3.9%	8	3.6%	5	2.6%	-3
Shoulder	11	3.1%	14	2.9%	14	3.2%	10	4.5%	5	2.6%	-5
Hip	1	0.3%	6	1.3%	8	1.8%	5	2.3%	5	2.6%	-
Waist	1	0.3%	3	0.6%	5	1.1%	2	0.9%	5	2.6%	3
Chest	18	5.0%	24	5.0%	20	4.6%	9	4.1%	4	2.1%	-5
Elbow	6	1.7%	9	1.9%	11	2.5%	1	0.5%	4	2.1%	3
Thigh	6	1.7%	4	0.8%	5	1.1%	4	1.8%	4	2.1%	-
Mouth/ Tooth/ Lip	3	0.8%	5	1.0%	3	0.7%	-	-	3	1.6%	3
Nose	3	0.8%	2	0.4%	-	-	-	-	3	1.6%	3
Pelvis/ Groin	3	0.8%	1	0.2%	1	0.2%	-	-	2	1.1%	2
Upper Arm	2	0.6%	3	0.6%	1	0.2%	6	2.7%	2	1.1%	-4
Neck	10	2.8%	7	1.5%	11	2.5%	6	2.7%	1	0.5%	-5
Abdomen	1	0.3%	1	0.2%	-	-	-	-	1	0.5%	1
Trunk	1	0.3%	2	0.4%	2	0.5%	-	-	1	0.5%	1
Ear	1	0.3%	3	0.6%	-	-	1	0.5%	-	-	-1
<b>Sub-total</b>	<b>296</b>	<b>82.7%</b>	<b>406</b>	<b>84.8%</b>	<b>385</b>	<b>87.9%</b>	<b>206</b>	<b>93.2%</b>	<b>184</b>	<b>96.8%</b>	<b>-22</b>
<b>Other Types</b>	<b>62</b>	<b>17.3%</b>	<b>73</b>	<b>15.2%</b>	<b>53</b>	<b>12.1%</b>	<b>15</b>	<b>6.8%</b>	<b>6</b>	<b>3.2%</b>	<b>-9</b>
<b>Total number of accidents<sup>2</sup></b>	<b>358</b> <b>(318)</b>	<b>-----</b>	<b>479</b> <b>(417)</b>	<b>-----</b>	<b>438</b> <b>(380)</b>	<b>-----</b>	<b>221</b> <b>(187)</b>	<b>-----</b>	<b>190</b> <b>(158)</b>	<b>-----</b>	<b>-31</b> <b>(-29)</b>

<sup>1</sup> “Change” means the difference in no. of accidents between 2019 and 2020.

<sup>2</sup> 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 2016 to 2020**  
**Analyzed by Agents Involved in Accidents**

Agents Involved	2016		2017		2018		2019		2020		Change <sup>1</sup>
	No.	%	No.	%	No.	%	No.	%	No.	%	
Floor, Ground, Stairs or Any Working Surface	47	14.1%	80	18.4%	73	18.5%	39	20.4%	31	18.0%	-8
Material/ Product Being Handled or Stored (e.g. Plank, timber, rope etc.)	46	13.8%	71	16.3%	81	20.6%	25	13.1%	27	15.7%	2
Portable Power or Hand Tools	35	10.5%	28	6.4%	36	9.1%	27	14.1%	18	10.5%	-9
Ladder or Working At Height	11	3.3%	16	3.7%	16	4.1%	4	2.1%	11	6.4%	7
Equipment For Lifting/ Conveying	15	4.5%	10	2.3%	17	4.3%	6	3.1%	8	4.7%	2
Other Machinery (specify)	7	2.1%	10	2.3%	6	1.5%	5	2.6%	6	3.5%	1
Vehicle or Associated Equipment or Machinery	9	2.7%	11	2.5%	8	2.0%	6	3.1%	4	2.3%	-2
Electricity Supply, Wiring Apparatus or Equipment	1	0.3%	1	0.2%	-	-	1	0.5%	3	1.7%	2
Steel Bar/ Rod	2	0.6%	11	2.5%	3	0.8%	1	0.5%	3	1.7%	2
Movable Container or Package of Any Kind	-	-	-	-	1	0.3%	-	-	3	1.7%	3
Sewerage, Manhole or Other Confined Space	-	-	-	-	-	-	1	0.5%	2	1.2%	1
Gas, Vapour, Dust or Fume	4	1.2%	5	1.1%	-	-	-	-	1	0.6%	1
Construction Formwork, Shuttering & Falsework	8	2.4%	12	2.8%	-	-	2	1.0%	1	0.6%	-1
Excavation/ Underground Work	5	1.5%	10	2.3%	4	1.0%	2	1.0%	1	0.6%	-1
Nail, Splinter or Chipping	1	0.3%	1	0.2%	-	-	-	-	-	-	-
Scaffolding/ Gondola	3	0.9%	5	1.1%	4	1.0%	-	-	-	-	-
Slope	1	0.3%	1	0.2%	4	1.0%	3	1.6%	-	-	-3
Pipe	-	-	3	0.7%	7	1.8%	3	1.6%	-	-	-3
<b>Sub-total</b>	<b>195</b>	<b>58.6%</b>	<b>275</b>	<b>63.2%</b>	<b>260</b>	<b>66.0%</b>	<b>125</b>	<b>65.4%</b>	<b>119</b>	<b>69.2%</b>	<b>-6</b>
<b>Other Types</b>	<b>138</b>	<b>41.4%</b>	<b>160</b>	<b>36.8%</b>	<b>134</b>	<b>34.0%</b>	<b>66</b>	<b>34.6%</b>	<b>53</b>	<b>30.8%</b>	<b>-13</b>
<b>Total number of accidents <sup>2</sup></b>	<b>333</b> <b>(318)</b>	<b>-----</b>	<b>435</b> <b>(417)</b>	<b>-----</b>	<b>394</b> <b>(380)</b>	<b>-----</b>	<b>191</b> <b>(187)</b>	<b>-----</b>	<b>172</b> <b>(158)</b>	<b>-----</b>	<b>-19</b> <b>(-29)</b>

<sup>1</sup> "Change" means the difference in no. of accidents between 2019 and 2020

<sup>2</sup> 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 2016 to 2020**  
**Analyzed by Unsafe Actions Involved in Accidents**

Unsafe Actions	2016		2017		2018		2019		2020		
	No.	%	No.	%	No.	%	No.	%	No.	%	Change <sup>1</sup>
Lapse Of Attention	115	32.3%	143	31.0%	113	29.3%	63	25.2%	49	19.8%	-14
Adopting Unsafe Position or Posture	46	12.9%	91	19.7%	59	15.3%	31	12.4%	30	12.1%	-1
Failure To Secure Objects	12	3.4%	23	5.0%	26	6.7%	15	6.0%	15	6.1%	-
Use Unsafe Equipment/ Use Equipment Unsafely	10	2.8%	14	3.0%	28	7.3%	9	3.6%	14	5.7%	5
Use Unsuitable Access/ Failure To Use Access	11	3.1%	21	4.5%	16	4.1%	7	2.8%	6	2.4%	-1
Failure To Use Gloves	5	1.4%	5	1.1%	4	1.0%	3	1.2%	5	2.0%	2
Unsafe Loading, Placing, Mixing etc.	7	2.0%	11	2.4%	8	2.1%	3	1.2%	4	1.6%	1
Failure To Warn Others or Give Proper Signals	6	1.7%	2	0.4%	1	0.3%	2	0.8%	3	1.2%	1
Operating Without Authority	1	0.3%	7	1.5%	3	0.8%	2	0.8%	2	0.8%	-
Failure To Use Safety Belt/ Harness	5	1.4%	4	0.9%	4	1.0%	1	0.4%	2	0.8%	1
Failure To Use Proper Footwear	-	-	1	0.2%	-	-	3	1.2%	2	0.8%	-1
Working On Moving or Dangerous Equipment	2	0.6%	1	0.2%	-	-	-	-	1	0.4%	1
Failure To Use Eye Protector	3	0.8%	5	1.1%	3	0.8%	-	-	1	0.4%	1
Failure To Use Helmet	-	-	2	0.4%	-	-	-	-	1	0.4%	1
Failure To use Proper Clothing	-	-	2	0.4%	1	0.3%	-	-	1	0.4%	1
Making Safety Devices Inoperative	2	0.6%	3	0.6%	2	0.5%	-	-	-	-	-
Operating or Working At Unsafe Speed	1	0.3%	2	0.4%	2	0.5%	-	-	-	-	-
<b>Sub-total</b>	<b>226</b>	<b>63.5%</b>	<b>337</b>	<b>72.9%</b>	<b>270</b>	<b>69.9%</b>	<b>139</b>	<b>55.6%</b>	<b>136</b>	<b>55.1%</b>	<b>-3</b>
<b>Other Types</b>	<b>130</b>	<b>36.5%</b>	<b>125</b>	<b>27.1%</b>	<b>116</b>	<b>30.1%</b>	<b>111</b>	<b>44.4%</b>	<b>111</b>	<b>44.9%</b>	<b>-</b>
<b>Total sum of “Unsafe Actions”<sup>2</sup></b>	<b>356</b> <b>(318)</b>	<b>-----</b>	<b>462</b> <b>(417)</b>	<b>-----</b>	<b>386</b> <b>(380)</b>	<b>-----</b>	<b>250</b> <b>(187)</b>	<b>-----</b>	<b>247</b> <b>(158)</b>	<b>-----</b>	<b>-3</b> <b>(-29)</b>

<sup>1</sup> “Change” means the difference in no. of accidents between 2019 and 2020

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



**Appendix N**

**No. of Accidents for Public Works Contracts from 2016 to 2020**  
**Analyzed by Unsafe Conditions Involved in Accidents**

Unsafe Conditions	2016		2017		2018		2019		2020		Change <sup>1</sup>
	No.	%	No.	%	No.	%	No.	%	No.	%	
Improper Procedure	31	9.1%	36	7.9%	26	6.4%	16	8.0%	18	10.0%	2
Unsafe Process or Job Methods	36	10.6%	54	11.8%	50	12.3%	25	12.4%	16	8.9%	-9
Improper Stacking/ Storage	13	3.8%	22	4.8%	19	4.7%	8	4.0%	16	8.9%	8
Slippery Area	19	5.6%	26	5.7%	29	7.1%	9	4.5%	12	6.7%	3
Inadequate Working Space/ Platform	10	2.9%	15	3.3%	23	5.7%	6	3.0%	11	6.1%	5
Poor Housekeeping	14	4.1%	31	6.8%	21	5.2%	9	4.5%	10	5.6%	1
No Protective Gear	2	0.6%	9	2.0%	6	1.5%	-	-	7	3.9%	7
Improper Guarding/ No Guarding	2	0.6%	6	1.3%	2	0.5%	2	1.0%	3	1.7%	1
Lack Of Warning System	9	2.6%	8	1.8%	4	1.0%	6	3.0%	3	1.7%	-3
Adverse Weather	3	0.9%	1	0.2%	3	0.7%	1	0.5%	2	1.1%	1
Inadequate Tools and Protective Equipment	6	1.8%	11	2.4%	12	3.0%	4	2.0%	2	1.1%	-2
Unsafe Layout Of Job, Traffic etc.	-	-	-	-	2	0.5%	-	-	2	1.1%	2
Defective Tool, Machinery or Material	6	1.8%	13	2.9%	9	2.2%	6	3.0%	1	0.6%	-5
Improper Dress/ Footwear	-	-	4	0.9%	4	1.0%	2	1.0%	1	0.6%	-1
Defective Protective Gear	-	-	-	-	-	-	1	0.5%	1	0.6%	-
Improper Illumination	2	0.6%	1	0.2%	1	0.2%	-	-	-	-	-
<b>Sub-total</b>	<b>153</b>	<b>44.9%</b>	<b>237</b>	<b>52.0%</b>	<b>211</b>	<b>52.0%</b>	<b>95</b>	<b>47.3%</b>	<b>105</b>	<b>58.3%</b>	<b>10</b>
<b>Other Types</b>	<b>188</b>	<b>55.1%</b>	<b>219</b>	<b>48.0%</b>	<b>195</b>	<b>48.0%</b>	<b>106</b>	<b>52.7%</b>	<b>75</b>	<b>41.7%</b>	<b>-31</b>
<b>Total number of accidents <sup>2</sup></b>	<b>341</b> <b>(318)</b>	<b>-----</b>	<b>456</b> <b>(417)</b>	<b>-----</b>	<b>406</b> <b>(380)</b>	<b>-----</b>	<b>201</b> <b>(187)</b>	<b>-----</b>	<b>180</b> <b>(158)</b>	<b>-----</b>	<b>-21</b> <b>(-29)</b>

1 “Change” means the difference in no. of accidents between 2019 and 2020.

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 2016 to 2020**  
**Analyzed by Personal Factors Involved in Accidents**

Personal Factors Involved	2016		2017		2018		2019		2020		
	No.	%	No.	%	No.	%	No.	%	No.	%	Change <sup>1</sup>
Carelessness/ Not Concentrate	199	57.2%	230	50.4%	228	56.4%	117	56.3%	92	50.8%	-25
Incorrent Attitude/ Motive	30	8.6%	42	9.2%	37	9.2%	23	11.1%	23	12.7%	-
Unsafe Act By Another Person	10	2.9%	12	2.6%	12	3.0%	3	1.4%	17	9.4%	14
Lack Of Knowledge or Skill	18	5.2%	46	10.1%	36	8.9%	21	10.1%	16	8.8%	-5
Physical Defects	2	0.6%	7	1.5%	6	1.5%	3	1.4%	2	1.1%	-1
Fatigue/ Exhaustion	2	0.6%	1	0.2%	1	0.2%	1	0.5%	1	0.6%	-
<b>Sub-total</b>	<b>261</b>	<b>75.0%</b>	<b>338</b>	<b>74.1%</b>	<b>320</b>	<b>79.2%</b>	<b>168</b>	<b>80.8%</b>	<b>151</b>	<b>83.4%</b>	<b>-17</b>
<b>Other Types</b>	<b>87</b>	<b>25.0%</b>	<b>118</b>	<b>25.9%</b>	<b>84</b>	<b>20.8%</b>	<b>40</b>	<b>19.2%</b>	<b>30</b>	<b>16.6%</b>	<b>-10</b>
<b>Total number of accidents <sup>2</sup></b>	<b>348</b> <b>(318)</b>	<b>-----</b>	<b>456</b> <b>(417)</b>	<b>-----</b>	<b>404</b> <b>(380)</b>	<b>-----</b>	<b>208</b> <b>(187)</b>	<b>-----</b>	<b>181</b> <b>(158)</b>	<b>-----</b>	<b>-27</b> <b>(-29)</b>

1 “Change” means the difference in no. of accidents between 2019 and 2020.

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.