Relation between small causal agents and type of Fatal accidents in code no. 30102 tunnel construction work as small industry in 1	999-2020

		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	90	99	00
ode	small causal agents		falling to same level	crash	struck by flying or falling object	collapse	crashed by	caught in/between	cut	injury to the sole of the foot	drown	contact to high/low- temperature	contact to harmful substance	electric shock	explosion	burst	fire	traffic accident (public road)	traffic accident (others)	reaction to motion/improper motion	others	unclassifiable	total
11	engine																						0
21	power transmission mechanism																						0
31	circular sawing machine																						0
32	band sawing machine																						0
.33	wood planer machine																						0
34	hollow chisel mortiser, wood borer																						0
35	chamfering machine, router, woodworking milling machine																						0
36	chain saw																						0
39	other woodworking machines																						0
141	leveling, transporting or loading machine							3															3
142	excavating machine	2	1		1		2	11															17
43	foundation work machine																						0
44	hardening machine																						0
45	demolition machine	1					1	2															4
46	vehicle for high lift work	1						5															6
49	other construction machines				1		2	5			2												10
	lathe																						0
	drill press, milling machine																						0
	grinding machine, buffing machine																						0
	power press																						0
55	forging pressure																						0

	hammer															
156	shearing machine															0
159	other metal manufacturing machines															0
161	centrifugal machine															0
162	mixer, grinder							2								2
163	roll machine (except printingroll machine)															0
164	injection molding machine															0
165	food manufacturing machine															0
166	printing machine															0
	industrial robot															0
169	other general power machines							1								1
171	felling machine	1														1
	mobile logging machine															0
	skyline yarding machine															0
179	other mobile silviculture machine															0
211	crane				1											1
212	mobile crane				1			2								3
213	derrick crane															0
	elevator, lift															0
215	cargo lifting appliance															0
216	gondola															0
217	lumberyard equipment, logging cableway															0
218	simple skyline yarding equipment															0
219	other powered crane															0
	truck			1			3	9								13
	forklift															0
223	railway equipment		1	1		2	3	2								9
224	conveyor															0
225	loader															0

226	straddle carrier															0
227	rough terrain hauler															0
229	other powered conveying machines															0
231	cars, bus, motorcycle															0
	railway vehicle															0
	other vehicles															0
	boiler															0
312	pressure vessel															0
319	other pressure vessels															0
321	chemical facilities															0
331	gas welding equipment															0
	arc welding equipment															0
339	other welding equipment															0
341	kiln, caldron															0
342	industrial dryer															0
349	other kiln, caldron															0
351	transmission															0
352	electric power facilities															0
359	other electrical equipment															0
361	human power cranes				1		1									2
362	human power hauling equipment															0
363	human power machine															0
364	hand tool															0
	ladder															0
372	slinging tool															0
379	other tools				1											1
	other equipments, facilities	1														1
		4											Ī			4
	timbering			1	5	1	1						Ī			8
	stairs, landing stage	3											Ī			3
		2						iM	 				Ť			2
	roof, beam, haze,												Ī			

415	crossbeam, principal rafter																						0
416	working platform, boot board																						0
-	passage																						0
418	building, establishment	4			3	1											1						9
419	other temporary buildings, establishments	1																					1
511	explosive substance																						0
512	inflammable substance																						0
513	inflammable gas														4								4
514	harmful substance																						0
515	radiation																						0
519	other hazards, harmful substances																						0
521	metal material				1		1	1															3
522	lumber, bamboo																						0
523	stone, sand, substance																						0
529	other materials																						0
	load					1	1																2
612	machine/equipment as load																						0
711	natural ground, rock				2	24	1																27
712	standing tree						1																1
	water										1												1
/14	abnormal environment																						0
715	high/cold temperature environment																						0
719	other environments					1															9		10
911	other causal agent																						0
	no causal agent																						0
999	unclassifiable																						0
000	total	20	2	2	11	36	16	45	0	0	3	0	0	0	4	0	1	0	0	0	9	0	149

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

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