



**Multi-Language Dictionary for Disaster Reduction
developed under ADRC Visiting Researcher Program**





Sr.No.	English	Malaysian
1	arcade	arked
2	earthdam	empangan
3	arch action	tindakan lengkung
4	arch dam	empangan lengkung
5	isostacy	isostasi
6	red tide	arus merah
7	vacancy	kekosongan
8	vacancy rate	kadar kekosongan
9	acoustic emission	pencemaran bunyi
10	aseismic front	perenggang aseismik
11	asperity	kekasaran
12	asperity model	model kekasaran
13	asthenosphere	asthenosfera
14	compression	pemampatan
15	compression stress	tekanan pemampatan
16	compressive strength	kekuatan mampatan
17	Atterberg limit	had Atterberg
18	consolidation	penggabungan
19	consolidated shear test	penggabungan ujian ricih
20	consolidation test	ujian penggabungan
21	consolidation settlement	penyelesaian penggabungan
22	pressure	tekanan
23	pressure gradient	perubahan tekanan
24	analog simulation	simulasi analog
25	subtropical jet stream	arus jet subtropika
26	Automated Meteorological Data Acquisition System	sistem pemerolehan data meteorologi secara automatik
27	Alpine-Himalayan sesimic belt	lingkaran seismic Alpine-Himalaya
28	Alpine Orogeny	Alpine Orogeny
29	array	barisan
30	array observation	pemantauan barisan
31	anchor works	kerja-kerja utama
32	culvert	kalbok
33	underdrainage	aliran bawah tanah
34	enquete method	kaedah enquete
35	safety factor	faktor keselamatan
36	allowable bearing stress	ketahanan tekanan yang dibenarkan
37	safety	keselamatan
38	safety index	indek keselamatan
39	probability of safety	kebarangkalian selamat
40	safety factor	faktor keselamatan
41	stability analysis	analisis kestabilan
42	stable channel	terusan stabil
43	stability coefficient	pekali kestabilan
44	equilibrium slope	keseimbangan cerun
45	Taylor's chart	carta Taylor
46	stable mass	jasad stabil
47	ion exchange works	proses pertukaran ion



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48	precast concrete armor units	
49	ICOS works	kerja ICOS
50	stone masonry	kerja batu
51	stone pitching	turapan batu
52	migration	perpindahan
53	abnormal dry weather	cuaca kering yang tidak normal
54	unusual weather	cuaca yang tidak biasa
55	region of anomalous seismic intensity	kawasan keamatan seismik yang anomali
56	extra- high tide	air pasang besar
57	embankment along the borders of water reserved area	penambakan sepanjang sempadan kawasan tadahan air
58	unusual natural phenomena	fenomena alam yang luarbiasa
59	extra-high wave	gelombang besar
60	anomalous ground upheaval	pergerakan tanah anomali
61	minimum water level	paras laut minima
62	phase	fasa
63	phase lag	selang fasa
64	phase velocity	kelajuan fasa
65	phase characteristics	ciri-ciri fasa
66	primary consolidation	penggabungan fasa
67	primary creep	gelongsuran utama
68	one- dimensional model	model satu dimensi
69	primary disaster	bencana utama
70	primary landslide	tanah runtuh utama
71	primary shirasu	shirasu utama
72	primary design	rekabentuk utama
73	first order valley	lembah peringkat pertama
74	single degree of freedom	kebebasan peringkat pertama
75	checkered sodding	bencana yang dijangka
76	smooth flow	aliran lancar
77	well foundation work	kerja asas yang baik
78	parcel of land	sebidang tanah
79	migration	pemindahan
80	mobile home	rumah mudah alih
81	moveable bed	katil mudah alih
82	movable bed channel	terusan dasar mudah alih
83	migrating crustal deformation	
84	reference studs	
85	well function	berfungsi dengan baik
86	well hydraulics	berhidrolik dengan baik
87	berm	penambakan
88	anisotrophy	anisotropi
89	living room	ruang tamu
90	advection	adveksi
91	advection fog	kabus adveksi
92	impedance ratio	nisbah impedans
93	infrastructure	infastruktur
94	Wiechert seismograph	seismograf Wiechert

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95	hanging wall	dinding tergantung	
96	well point	titik telaga	
97	crop damage due to rain	kemusnahan tanaman akibat hujan	
98	up lift	terangkat	
99	floating foundation	dasar terapung	
100	stratum of opposite dip		
101	rain sculpture	ukiran hujan	
102	Japan)	Ushiwaku(kaedah kawalan air tradisional di Jepun	
103	vortex	pusar	
104	vorticity	kepusaran	
105	vortex shedding	penurunan pusar	
106	space technology	teknologi angkasa lepas	
107	Wood-Anderson sesimograph	seismograf Wood-Anderson	
108	rain splash erosion	hakisan akibat tempas hujan	
109	swell	alun	
110	sea fog	kabut laut	
111	reclaimed land	tanah yang ditebusguna	
112	landslide banquet		
113	back-fill	mengambus balik	
114	landslide slope of bank	runtuhan cerun penambakan	
115	Wulff net	jaring Wulff	
116	Wurm glacial stage	glasial peringkat Wurm	
117	gully	lurah	
118	gully erosion	hakisan lurah	
119	movement	pergerakan	
120	kinematic model	model kinematik	
121	transportation	pengangkutan	
122	air gun	senapang angin	
123	Airy phase	fasa udara	
124	permafrost	permafrost	
125	influence area	kawasan yang terdedah	
126	satellite image	gambar satelit	
127	satellite station	stesyen satelit	
128	satellite city	bandar satelit	
129	A horizon	mendatar	
130	sensitivity ratio	kadar kesensitifan	
131	aerosol	semburan	
132	liquefaction	pencairan	
133	expansion joint	pengembangan sambungan	
134	liquidity index	indek kecairan	
135	ecumenopolis	ekuminopolis	
136	SH-wave	gelombang-SH	
137	shear wave velocity	kelajuan gelombang ricih	
138	SV-wave	gelombang-SV	
139	X-ray diffraction	pembelauan sinar-X	
140	overtopping		
141	wave overtopping		
142	overflow depth	kedalaman limpah keluar	



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143	fuse plug levee	
144	n'th order valley	lembah peringkat ke-n
145	energy	tenaga
146	energy release rate	kadar perlepasan tenaga
147	energy index	indeks tenaga
148	Medvedev-Sponheuer-Karnik intensity scale	skala keamatan Medvedev-Sponheuer-Karnik
149	El Nino	El Nino
150	marginal sea	laut pinggir
151	salt injury	kemusnahan akibat kemasinan
152	smoke pollution area	kawasan pencemaran asap
153	circular side	sisi bulat
154	spread of fire	kemerebakan kebakaran
155	fire break	langkau api
156	fire break consolidation plan	
157	salinization	permasinan
158	cone type	jenis kon
159	salt water intrusion	gangguan air masin
160	ductility	boleh lentur
161	enthalpy	entalpi
162	distance earthquake	gempabumi jauh
163	tsunami from distant origin	tsunami dari asalan yang jauh
164	vertical component	komponen menegak
165	vertical shear	ricihan menegak
166	vertical bearing capacity	keupayaan bearing menegak
167	vertical seismic coefficient	pekali seismik menegak
168	vertical transport	angkutan menegak
169	vertical flow	aliran menegak
170	dam	empangan
171	road-side improvement project	projek penambahbaikan tepi jalan
172	entropy	entropi
173	haze	jerebu
174	Euler pole	kutub Euler
175	Euler's theorem	teori Euler
176	temporary coffering	melekuk sementara
177	temporary work for disaster	kerja sementara untuk bencana
178	temporary housing	perumahan semetara
179	temporary seepage prevention work	kerja sementara pencegahan limpahan
180	emergency policy	polisi keselamatan
181	temporary ground water drainage works	kerja saluran air bawah tanah sementara
182	temporary catch drain	parit tadah sementara
183	temporary earth retaining works	
184	yellow sand	pasir kuning
185	loess	tanah halus
186	response analysis	analisis tindakan
187	response spectrum	spektrum tindakan
188	response displacement method	kaedah peralihan tindakan
189	response envelope spectrum	
190	response modification factor	faktor perubahan tindakan

Sr.No.	English	Malaysian
191	application	perlaksanaan
192	stress	tekanan
193	stress relief method	kaedah pemulihan tekanan
194	stress intensity factor	faktor keamatan tekanan
195	stress relaxation model	model istirehat tekanan
196	stress drop	kejatuhan tekanan
197	stress concentration	pemusatan tekanan
198	stress concentration factor	faktor pemusatan tekanan
199	stress field	medan tekanan
200	stress measurement	pengukuran tekanan
201	stress tensor	otot tekanan
202	stress corrosion	hakisan tekanan
203	Hydraulic jack method	kaedah jack hidrolik
204	models for size distribution	model saiz pembahagian
205	over coring	penerasan berlebihan; melampau
206	open space	tempat terbuka
207	Omori's sesimograph	seismograf Omori
208	delayed fracture	kelambatan retakan
209	counterweight fill works	
210	sewage	kumbahan
211	sewage treatment	rawatan kumbahan
212	contamination	pencemaran
213	ozone	ozon
214	ovalling ossillation	ayunan secara membujur
215	ribbon development	pembentukan reben
216	off-fault aftershock	
217	drowned valley	lembah tenggelam
218	riverside banquet	perjamuan tepi sungai
219	embankment surface inside the river	pengempang permukaan di dalam sungai
220	fall wind	angin jatuh
221	green house effect	kesan rumah hijau
222	activity of hot spring	aktiviti kolam air panas
223	sofataric landslide	tanah runtuh solfatarik
224	hot spring water	air panas
225	sinter	sinter
226	hot spring alteration zone	zon perubahan air panas
227	sofataric clay	tanah liat solfatarik
228	extratropical cyclone	taufan extratropika
229	warm front	perenggan panas
230	temperature	suhu
231	sonic wave	gelombang sonik
232	on-line	dalam talian
233	over consolidated soil	
234	OCR:over consolidation ratio	
235	curtain grouting	penurapan tabir
236	curtain block	bongkah tabir;penghadang
237	card-board drain	
238	story	cerita



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Sr.No.	English	Malaysian
239	solution	penyelesaian
240	exogenous	eksogen
241	outer core	teras luar
242	planner	perancang
243	coastal structure	struktur pantai
244	seawall revetment	penambakan tebing laut
245	beach erosion	hakisan pantai
246	disaster of beach erosion	bencana hakisan pantai
247	protection against beach erosion	perlindungan untuk menghalang hakisan pantai
248	coastal terrace	teres pantai
249	sea dyke	tembok laut
250	sea coast act	akta pantai
251	coastal protection	perlindungan pantai
252	coastal current	arus pantai
253	return period	tempoh kembali
254	regression line	garisan regresi
255	regression model block(city,town)	blok model regresi
256	block arrangement	penyusunan blok
257	open space in a block	kawasan terbuka di dalam blok
258	outer arc	permukaan luar lengkung
259	trench	jurang
260	opening mode	cara pembukaan
261	sea mount	gunung laut
262	marine warning	amaran lautan
263	oceanographic disasters	bencana lautan
264	agglomeration	pengumpulan
265	marine forecast	ramalan lautan
266	coastal cliff	cenuram pantai
267	sea shock	kejutan laut
268	transgression	pelanggaran/pencabulan
269	water outside of embankment	air di luar kawasan penambakan
270	talus	cerun
271	sea water exchange	perubahan air laut
272	sea level change	perubahan aras laut
273	talus deposit	penambahan cerun
274	sea surface temperature	suhu permukaan laut
275	talus creep	runtuhan cerun
276	open channel	terusan terbuka
277	marine terrace	teres lautan
278	shore terrace	teres tepi lautan
279	analysis	analisis
280	diffraction	penyerakan
281	conversion	penukaran
282	cladding	penglitupan
283	regression	kemerosotan
284	stepped dam	empangan bertangga
285	revetment with steps	penambakan bertangga
286	stepped dam	empangan bertangga

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Sr.No.	English	Malaysian
287	alteration	pengubahan
288	submarine volcano	gunung berapi dasar laut
289	submarine earthquake	gempabumi dasar laut
290	ocean bottom sesimological observation	pencerapan seismologi dasar laut
291	ocean bottom sesimograph	seismograf dasar laut
292	submarine slope failure	kegagalan cerun dasar laut
293	submarine eruption	letusan dasar laut
294	amenities	kemudahan
295	radius of gyration	jejari putaran
296	development plan	plan pembangunan
297	development rights	hak-hak pembangunan
298	development trust	amanah pembangunan
299	development promotion area	pembangunan kawasan cadangan
300	development and disaster prevention	pencegahan pembangunan dan bencana
301	sea ice	lautan ais
302	beach profile	profil pantai
303	change of beach profile	perubahan profile pantai
304	near shore current	arus tepi laut
305	external magnetic field	medan magnetik luaran
306	eustatic movement	pergerakan eustatik
307	sea-floor spreading	pelebaran dasar laut
308	offshore structure	struktur tengah laut
309	ocean tide	arus lautan
310	oceanic plate	plat lautan
311	frontal thunderstorm	perenggan ribut petir
312	exotic river	sungai eksotik
313	land and sea breeze	bayu darat dan laut
314	ocean current	arus lautan
315	improvement	penambahbaikan
316	modified Amour formula	formula Armour yang diubahsuai
317	housing improvement	penambahbaikan rumah
318	improvement restoration work	penambahbaikan pengekaln rumah
319	street	jalan
320	Gaussian distribution	taburan Gaussian
321	volcanic glow	cahaya gunung berapi
322	kiolinite minerals	mineral kiolinite
323	chemical soil improvement	penambahbaikan kimia tanah
324	chemical weathering	perubahan cuaca secara kimia
325	slickenside	kesan pergeseran batu
326	bank erosion	hakisan tebing
327	fluvial terrace	teres fluvial
328	core	teras
329	core-mantle boundary	sempadan teras-mantel
330	sliding timber weir	
331	angular distance	jarak lengkung
332	diffusion	pembauran
333	water spreading	semburan air
334	water spreading method	kaedah semburan air

Sr.No.	English	Malaysian
335	spreading rate	kadar semburan
336	deterministic method	kaedah penentuan
337	nuclear explosion	ledakan nuklear
338	probability	kebarangkalian
339	probable flood method	kaedah kemungkinan banjir
340	stochastic phenomena	fenomena stokastik
341	probabilistic	kebarangkalian
342	stochastic hydrology	hidrologi stokastik
343	probability distribution	taburan kebarangkalian
344	probability distribution function	fungsi taburan kebarangkalian
345	probability density function	fungsi ketumpatan kebarangkalian
346	probability theory	teori kebarangkalian
347	probabilistic method	kaedah kebarangkalian
348	river system	sistem sungai
349	earth-fall	terbisan tanah
350	campaign for prevention of damages of steep slope failure	kempen pencegahan runtuh akibat cerun curam
351	removing protect of houses in dangerous region near steep	
352	crater	lohong
353	saline barrier	sempadan masin
354	estuary closing	penutup muara
355	levee-height increase	peningkatan tinggi tambakan
356	fire	kebakaran
357	meteorological information for fire warning	maklumat meteorologi untuk amaran kebakaran
358	fire warning	amaran kebakaran
359	pyroclastic surge	ledakan piroklastik
360	pyroclastic flow	aliran piroklastik
361	volcano	gunung berapi
362	volcanic gas	gas gunung berapi
363	volcanic activity	aktiviti gunung berapi
364	volcanic spine	kon gunung berapi
365	volcano-tectonic depression	pemendapan gunung berapi tektonik
366	volcanic disasters	bencana gunung berapi
367	volcano hazard assessment	penilaian bencana gunung berapi
368	pyroclastic material	bahan-bahan piroklastik
369	volcanic sublimation	pemejalwapan gunung berapi
370	volcanic dust	debu gunung berapi
371	volcanic denuded land	tanah yang dilitupi lahar gunung berapi
372	volcanic earthquake	gempabumi gunung berapi
373	volcanic crustal information	maklumat kerak gunung berapi
374	volcactic tremor	gegaran gunung berapi
375	volcanic belt	lingkaran gunung berapi
376	collapse of volcanic edifice	runtuh struktur gunung berapi
377	volcanic bomb	bom gunung berapi
378	geological map of volcano	peta geologi gunung berapi
379	volcanic ash	habuk gunung berapi
380	volcanic cohesive soil	tanah jeleket gunung berapi



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Sr.No.	English	Malaysian
381	volcanic ash soil	habuk tanah gunung berapi
382	ash flow	aliran habuk
383	volcanic front	perenggan gunung berapi
384	volcanic explosivity index	indeks ledakan gunung berapi
385	national project for prediction of volcanic eruption	projek nasional untuk ramalan letusan gunung berapi
386	volcanic rumbling	bunyi bergelegak gunung berapi
387	volcanic thunder and lighting	petir dan kilat gunung berapi
388	lapilli	lapilli
389	lapilli tuff	tuf lapili
390	alluvial fan at volcanic foot	
391	load	muatan
392	load and external force	muatan dan daya luaran
393	load factor	faktor muatan
394	load effect	kesan muatan
395	congested district	daerah yang sesak
396	incremental loading analysis	analisis penambahan muatan
397	load and resistance factor design method	kaedah rekabentuk faktor muatan dan rintangan
398	load-settlement curve	lengkung enapan beban
399	river bed	dasar sungai
400	river regime	kawsan sungai
401	coefficient of river regime	pekali dasar sungai
402	ripple mark	kesan riak
403	possible duration of sunshine	jangkaan tempoh sinaran matahari
404	stream profile	profil sungai
405	river-bed score	skor dasar sungai
406	degradation of river-bed	kemerosotan dasar sungai
407	river-bed material	bahan-bahan dasar sungai
408	excessive pumping	pum berlebihan
409	river cliff	tebing sungai
410	multiple-purpose development works of river basin	kerja-kerja pembangunan pelbagai-guna lembangan sungai
411	Kazusa drilling method	kaedah penggerudian Kazusa
412	gust response factor	faktor gerak balas badai
413	gas field water	air medan gas
414	open levee	tambak terbuka
415	wind	angin
416	over-damping	terlebih lembap
417	wind load	muatan angin
418	fossil water	air fosil
419	wind engineering	kejuruteraan angin
420	variability of wind	kepelbagaian angin
421	rivers	sungai-sungai
422	river improvement	pembaikan sungai
423	river environments	persekitaran sungai
424	river zone	zon sungai
425	river disasters	bencana sungai

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426	technical standard for river works	piawai teknikal untuk pembaikan sungai
427	river capture	aliran sungai
428	fluvial morphology	morfologi fluvium
429	riparian act	akta riparian
430	zone for river conservation	kawasan pengekalan sungai
431	river regime	kawasan sungai
432	low level jet stream	aliran jet aras rendah
433	image processing	pemprosesan imej
434	assumed sliding plane	
435	accelerated erosion	peningkatan hakisan
436	acceleration	pecutan
437	acceleration response spectrum	
438	accelerogram	pengukur pecutan
439	accelerograph	graf pecutan
440	lagoon	lagun
441	catalog	katalog
442	technique for water control in Japan	teknik kawalan air di Jepun
443	drought	kemarau
444	year of storage of rainfall	tahun penyimpanan air hujan
445	droughty water-discharge	luahan air kekeringan
446	active fault	sesar aktif
447	sliding	gelinciran
448	active volcano countermeasure act	Akta menangani gunung berapi aktif
449	consolidation	konsolidasi
450	grouped data	data terkumpul
451	main scarp	tubir utama
452	home	rumah
453	volcanic conduit	konduit gunung berapi
454	fluvial geomorphology	
455	moving-coil type transducer	
456	disasters in river channel	bencana dalam terusan sungai
457	channel erosion	hakisan terusan
458	movable weir	
459	channel evolution	evolusi terusan
460	retarding basin in the channel	
461	Kanuma pumice bed	dasar poros Kanuma
462	river ice	sungai ais
463	wall	tembok
464	overcrowding	terlampau sesak
465	thunder	petir
466	vortex thunderstorm	ribut petir berpusing
467	dry masonry	
468	gully	lurah
469	gully erosion	hakisan lurah
470	Galitzin sesimograph	seismograf Galitzin
471	temporary diversion channel	terusan alihan sementara
472	downstream slope	cerun hilir
473	pumice eruption	letusan poros



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474	pumice flow	aliran poros
475	karst river	sungai karst
476	caldera	kaldera
477	Karman vortex	pusaran Karman
478	landslide of river channel	runtuhan tebing sungai
479	Kawasumi map	peta Kawasumi
480	meander of river	liku-liku sungai
481	irrigation	pengairan
482	drought damage	kerusakan akibat kemarau
483	cold damage	kerusakan akibat sejuk
484	irrigation water	aliran air
485	environment	persekitaran
486	temperature affected by surrounding	suhu yang dipengaruhi persekitaran
487	pore pressure coefficient	pekali tekanan liang
488	pore water pressure	tekanan liang air
489	void ratio	kadar kekosongan
490	porosity	keporosan
491	intermittent stream	aliran sekali sekala
492	intermittence	sekali sekala
493	geyser	geiser
494	intermitent eruptions	letusan sekali sekala
495	winter half year forecasting	ramalan setengah tahun musim sejuk
496	echelon fissures	rejahan eselon
497	magma	magma
498	buffer zone	zon penampan
499	seismoscope	seismoskop
500	Holocene	Holocene
501	water content	kandungan air
502	moment of inertia	momentum inersia
503	inertia force	daya inersia
504	rock	batu
505	rock avalanche	jatuhan batu
506	rock fracture	rekahan batu
507	snow cap	litupan salji
508	debris	debris
509	debris slide	gelinciran debris
510	debris avalanche	jatuhan debris
511	debris flow	aliran debris
512	arterial roads	jalan utama
513	dry mass	jisim kering
514	dry adiabatic change	pertukaran adiabatik kering
515	dry density	ketumpatan kering
516	observation	pencerapan
517	area of intensified observation	kawasan peningkatan pencerapan
518	Circum-Pacific seismic belt	lingkaran seismik Circum-Pasifik
519	reclamation works	kerja-kerja tebusguna
520	tidal river	sungai yang dpengaruhi oleh pasang surut
521	Kanto basin-forming movement	pergerakan pembentukan lembah Kanto



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Sr.No.	English	Malaysian
522	the Kanto earthquake	gempabumi Kanto
523	crown	mahkota
524	Kanto loam	tanah gembur Kanto
525	entrenched meander	pembentukkan liku
526	penetration test	ujian penetrasi
527	rock bed	dasar batu
528	rock slide	gelinciran batu
529	interglacial stage	peringkat peralihan glasial
530	collapse of basin	kerusakan lembah
531	collapse earthquake	kerusakan gempabumi
532	sluggish stream	aliran sungai yang lemah
533	cold vortex	pusaran sejuk
534	cold front	perenggan sejuk
535	relaxation time	masa santai
536	atmospheric pressure	tekanan atmosfera
537	pressure gradient	kecerunan atmosfera
538	pressure altitude	paras tekanan
539	pressure trough	palung tekanan
540	pressure ridge	jurang tekanan
541	maximum experienced flood	mengalami banjir yang maksima
542	atmospheric temprerature	suhu atmosfera
543	temperature gradient	kecerunan suhu
544	temperature lapse rate	kadar lelap suhu
545	diurnal amplitude of temperature change	amplitud perubahan suhu harian
546	annual amplitude of temperature change	amplitud perubahan suhu tahunan
547	mechanical seismograph	seismograf mekanikal
548	geometrical damping	perlembapan secara geometri
549	risk	risiko
550	hazard map	peta bencana
551	risk factor	faktor risiko
552	risky affectivity	keberkesanan risiko
553	nomenclature	nomenclature
554	climatic type	jenis iklim
555	climatic normal	iklim biasa
556	climatic change	perubahan iklim
557	pseudo response spectrum	tindakan palsu spektrum
558	pseudo velocity response spectrum	tindakan halaju palsu psektrum
559	origin- destination survey	kajian asalan-destinasi
560	normalized weight	penormalan berat
561	reference point	titik rujukan
562	meteorological satellite	satelit meteorologi
563	weather modification	pengubahan cuaca
564	meteorological office	pejabat meteorologi
565	meteorological observation	pencerapan meteorologi
566	weather service bill	bil perkhidmatan cuaca
567	weather warning	amaran cuaca
568	meteorological information for fire warning	maklumat meteorologi untuk amaran kebakaran

Sr.No.	English	Malaysian
569	automated data editing and switching system	sistem pengauditan data dan penukaran secara automatik
570	weather advisory	nasihat cuaca
571	Jpan Meteorological Agency	Agensi Meteorologi Jepun
572	sesimic intensity scale of the Japan Meteorological Agency	skala keamatan seismik Agensi Meteorologi Jepun
573	meteorological statistics	data-data meteorologi
574	weather radar	radar cuaca
575	meteorological rocket	roket meteorologi
576	monsoon	monsun
577	seasonal weather forecasting	ramalan cuaca bermusim
578	foundation	asas
579	foundation construction	pembinaan asa
580	foundations	asa-asa
581	foundation ground	lantai asas
582	footing	asas
583	expectation	jangkaan
584	air mass	jisim udara
585	air mass modification	pengubahan jisim udara
586	cohesive model	model bersama
587	basal conglomerate	pemendapan dasar
588	service ability limit state	
589	functional loss	kehilangan fungsi
590	bedrock	lantai batu
591	infrastructure	infastuktur
592	master plan	plan utama
593	fundamental period	tempoh asas
594	base map	peta asas
595	design flood	rekabentuk banjir
596	static magnification	pembesaran statik
597	fundamental mode	cara asas
598	inversion regulating reservoir	takungan pengatur songsangan
599	reversed profile	profil terbalik
600	thrust fault	sesar tujuh
601	inverse propagation diagram	carta perkadaran songsang
602	inverse dispersion	penyebaran songsang
603	back levee	penambakan belakang
604	regulating gate	pintu kawalan
605	capped water	air tertutup/terserkap
606	capped rock	batu tertutup/terserkap
607	galloping	pergerakan cepat
608	dormant volcano	gunung berapi tidak aktif
609	former river course	aliran sungai lama
610	steep slope land	tanah bercerun curam
611	project for prevention of steep slope failure	projek untuk mengatasi keruntuhan cerun curam
612	steep slope failure prevention works	kerja-kerja menghalang keruntuhan cerun curam

Sr.No.	English	Malaysian
613	measures for preventing the failure of steep slope	kaedah untuk mengatasi kegagalan cerun curam
614	quick shear test	ujian ricihan cepat
615	quality factor	faktor kualiti
616	hygroscopic water	air higroskopik
617	hills	bukit-bukit
618	Curie temperature	suhu Curie
619	Gunz glacial stage	glasier peringkat Gunz
620	tuff breccia	tuff breccia
621	tuff	tuff
622	boundary condition	keadaan sempadan
623	boundary layer wind tunnel	terowong angin lapisan sempadan
624	turbulent boundary layer flow	aliran lapisan sempadan gelora
625	landmark	mercu tanda; tanda pandu
626	boundary element method	kaedah unsur sempadan
627	condensation	pemeluwapan
628	bad harvest	tuaian buruk
629	resonance	gema; salunan
630	strong earthquake	gempabumi kuat
631	observation of strong earthquake motion	pencerapan pergerakan gempabumi kuat
632	Strong-motion Earthquake Observation Council	Badan Pencerapan pergerakan kuat gempabumi
633	strong motion seismograph	seismograf pergerakan kuat
634	strong motion seismogram	seismogram pergerakan kuat
635	strong motion	pergerakan kuat
636	estimation of strong ground motion	ramalan pergerakan kuat tanah
637	narrow band process	proses jalur sempit
638	doubling up	penggandaan
639	strong wind	angin kencang
640	strong wind disasters	bencana angin kencang
641	statistics of strong wind	statistik angin kencang
642	parapet levee	tetambak tembok tepi
643	conjugate fault	sesar konjugat
644	working stress design	reka bentuk tegangan kerja
645	lifetime	jangka hayat
646	bridge	jambatan
647	license	lesen
648	meteorological information for fishery	maklumat meteorologi untuk perikanan
649	pole	kutub
650	polar weather	cuaca kutub
651	ultimate bearing capacity	keupayaan galas muktamad
652	curve	lengkung
653	polar frontal zone	zon perenggan kutub
654	extreme value	nilai melampau
655	local weather	cuaca tempatan
656	statistics of extreme	statistik melampau
657	local wind	angin tempatan
658	extreme value distribution	taburan nilai melampau



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Sr.No.	English	Malaysian
659	local earthquake	gempabumi tempatan
660	meander	liku
661	room	bilik
662	great earthquake	gempabumi hebat
663	megalopolis	megalopolis
664	extremely large volcanic eruption	letusan gunung berapi sangat besar
665	redevelopment for base	asas pembangunan semula
666	behavior	kelakuan
667	fishway	lintasan ikan
668	allowable stress	tekanan yang dibenarkan
669	allowable stress design method	kaedah rekabentuk tekanan yang dibenarkan
670	allowable criterion	kriteria yang dibenarkan
671	allowable settlement	penempatan yang dibenarkan
672	attenuation damping	pengecilan redaman
673	fog	kabut
674	cut	potong
675	cut slope	pemotongan cerun
676	cut	potong
677	cut slope	pemotongan cerun
678	emergency shelter	pondok kecemasan
679	near earthquake	berhampiran gempabumi
680	tsunami from near-by origin	tsunami dari tempat yang dekat
681	uniformity coefficient	kesamaan pekali
682	neighborhood	kejiranan
683	pile	cerucuk
684	pile works	kerja pemasangan cerucuk
685	district	daerah
686	pile groin	cerucuk groin
687	dislocation	teralih/sesar
688	dislocation velocity	kelajuan sesar
689	slip angle	sudut gelincir
690	quick sand phenomena	fenomena pasir jertus
691	pile bearing capacity	
692	lateral resistance of a pile	
693	depth of embedment of pile	
694	aerodynamic force	daya aerodinamik
695	air wave	gelombang udara
696	aerial photograph	gambar dari udara
697	Gutenberg discontinuity	ketakselajaran Gutenberg
698	seismic gap area	kawasan jurang; ruang; rongga seismik
699	random occurrence	kemunculan rawak
700	aerodynamic damping	redaman aerodinamik
701	aerodynamic admittance	lepasan aerodinamik
702	Coulomb's earth-pressure theory	teori tekanan-bumi Coulomb
703	Coulomb's failure criterion	ciri-ciri gagal Coulomb
704	refraction	pembiasan
705	refracted wave	gelombang terbias
706	Kutter's formula	formula Kutter

Sr.No.	English	Malaysian
707	ward area(Tokyo)	daerah (Tokyo)
708	cloud	awan
709	classification of cloud	pengelasan awan
710	cloud band	kumpulan awan
711	cloud physics	fizikal awan
712	client	pelanggan
713	grouting	penurapan
714	grout	turap
715	cluster development	pembangunan berkelompok
716	crack	retak
717	growth of a crack	pertambahan retak
718	propagation of a crack	pergerakan retak
719	creep	rayapan; jalaran
720	creep-type landslide	
721	creep model	model rayapan; jalaran
722	Green tuff	Green tuff
723	Green Tuff region	kawasan Green tuff
724	Green Tuff movement	pergerakan Green tuff
725	green belt	kawasan; jalur hijau
726	recurrence	berulang-ulang
727	Griffith theory	teori Griffith
728	Gray tyoe vertical-motion pendulum	
729	cross spectral density	
730	kuroboku soil	tanah kuroboku
731	pile group	kumpulan cerucuk
732	crowd	sesak
733	group velocity	laju kumpulan
734	group waves	gelombang kumpulan
735	earthquake swarm	kelompok gempabumi
736	models for earthquake swarms	model gempabumi berkelompok
737	baroclinity	barokliniti
738	theodolite	teodolit
739	warming water level	pemanasan paras laut
740	warming statement	penyataan pemanasan
741	plan	plan
742	angle of attack	sudut serangan
743	planology	pengetahuan pembangunan bandar
744	design storm	rekabentuk ribut
745	design flood	rekabentuk banjir
746	design high water level	rekabentuk paras air pasang
747	design flood discharge	rekabentuk pengaliran banjir
748	design sea level	rekabentuk paras laut
749	Planned-Unit Development(PUD)	pembangunan perancangan unit
750	design wave	rekabentuk gelombang
751	proposed sediment discharge	cadangan pengaliran sedimen
752	natural disaster from economic view point	bencana alam dari pandangan ekonomi
753	tilt, dip	condong; senget
754	dip-slip fault	



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Sr.No.	English	Malaysian
755	dip angle	sudut condong
756	tiltmeter	tiltmeter
757	inclined	condong; cenderung
758	tilt step	tangga condong
759	grade	gred
760	slope of stream bed	cerun dasar anak sungai
761	longitudinal profile of torrent	
762	hydraulic radius	jejari hidraulik
763	coefficient	pekali
764	tilting	dongakan
765	gradient wind	angin cerun
766	warming and communication	
767	torrent works	kerja cegar
768	moored structure	struktur yang dilekat
769	torrent erosion	hakisan aliran deras
770	casing	bekas
771	very disastrous earthquake	gempabumi yang sangat berbahaya
772	disaster of extreme severity	bencana yang sangat teruk
773	downward erosion	hakisan ke bawah
774	sewage irrigation	pengairan kumbahan
775	sewer system	sistem pembetulan
776	sewerage treatment plant	kawasan rawatan kumbahan
777	sewerage system	sistem perkumbuhan
778	cuesta landform	bentuk bumi kuesta
779	break	pecah/putus
780	shale	lapisan batu yang mendap
781	coupling factor	faktor penggabungan
782	crystalline schist	pengkristalan schist
783	critical stress	tekanan kritikal
784	critical state	keadaan kritikal
785	critical depth	kedalaman kritikal
786	critical tractive force	daya tarikan kritikal
787	critical strain	regangan kritikal
788	critical friction velocity	kelajuan geseran kritikal
789	critical velocity	kelajuan kritikal
790	depreciation	merosot
791	mitigation of disaster	mengurangkan kesan bencana
792	antiseismic design of nuclear power plants	loji janakuasa dengan rekabentuk anti-seismik
793	damping	perlembapan
794	damper	pelembap
795	recession curve	lengkung rosot
796	water requirement in depth	keperluan air dengan kedalaman
797	damping factor	faktor perlembapan
798	energy dissipator	kehilangan tenaga
799	quarry	kuari
800	builder	jurubina
801	construction industry	industri pembinaan



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Sr.No.	English	Malaysian
802	building site	tapak bangunan
803	logging	pembalakan
804	stone material for fence works	bahan batu untuk kerja-kerja pemagaran
805	building code	kod bangunan
806	building structure	struktur bangunan
807	building restrictions	had-had bangunan
808	building line	garis bangunan
809	building	bangunan
810	making the building fireproof	membuat bangunan tahan kebakaran
811	building area	kawasan pembinaan
812	cubic contents	kandungan kubus
813	original topography	tofografi asal
814	field reconnaissance	medan; bidang, peninjau; pengintip
815	tide gauge	tolok pasang surut
816	mareogram	mareogram
817	tide gauge station	stesen pencerapan pasang surut
818	remarkable earthquake	gempabumi yang diingati
819	sensible heat	bahang yang dirasai
820	building coverage	liputan bangunan
821	head waters	punca sungai
822	galvanometer	galvanometer
823	regional ground water investigation	penyiasatan air bawah tanah wilayah
824	regional metamorphic rock	batu metamorfik wilayah
825	rainfall	jatuhan hujan
826	public operated houses	rumah-rumah seliaan awam
827	public utility works	kerja-kerja kemudahan awam
828	park	taman
829	effect	kesan
830	pollution	pencemaran
831	mining pollution	pencemaran lombong
832	optical seismograph	seismograf optikal
833	engineering judgement	penghakiman secara kejuruteraan
834	hardening rule	kaedah pengerasan
835	steel-pipe pile	cerucuk paip besi
836	anticyclone	antisiklon
837	capital improvement project	projek pembaikan utama
838	capital improvement program	program pembaikan utama
839	public housing	perumahan awam
840	capital budget	belanjawan negara
841	public corporation	kerjasama awam
842	public purpose	kegunaan awam
843	public use	kegunaan awam
844	aircraft accident	kemalangan udara
845	aeronautical meteorology	meteorologi penerbangan
846	aerial photograph	gambar dari udara
847	formula	formula
848	higher mode	cara yang lebih tinggi
849	nominal value	nilai nominal



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Sr.No.	English	Malaysian
850	centre of rigidity	pusat tegar
851	combined seismic coefficient	pekali bergabung seismik
852	Pleistocene	Pleistosen
853	flood	banjir
854	probability of precipitation	kemungkinan hujan
855	precipitation intensity	keamatan hujan
856	flood warning	amaran banjir
857	high-water revetment	penambakan air pasang
858	high-water channel	terusan air pasang
859	flood control	kawalan banjir
860	detention reservoir	empangan penahan
861	flood routing	aliran banjir
862	flood wave	gelombang banjir
863	flood vulnerable area	kawasan mudah terdedah kepada banjir
864	flood frequency	kekerapan banjir
865	flood protection	penghadang banjir
866	flood forecasting	ramalan banjir
867	flood sedimentation	sedimen banjir
868	amount of precipitation	jumlah jatuhan hujan
869	calibration	tentukur/kalibrasi
870	rigidity	kekal/tetap
871	diluvium	diluvium
872	heavy snow fall	jatuhan salji yang hebat
873	snow cloud	awan salji
874	intensity of snow fall	keamatan jatuhan salji
875	snow fall detector	pengesan jatuhan salji
876	mechanism of heavy snow fall	mekanisme jatuhan salji yang kuat
877	structure	struktur
878	high rise apartment	apartmen yang tinggi
879	tectogenesis	tektogenesis
880	structural planning	perancangan struktur
881	structural calculation standard	piawaian perkiraan struktur
882	structural type factor	faktor jenis struktur
883	structural coefficient	pekali struktur
884	structural material factor	faktor bahan struktur
885	tectonic line	garisan tektonik
886	tectonic zone	zon tektonik
887	tectonic forms	bentuk tektonik
888	upper weather map	carta udara atas cuaca
889	structural characteristic coefficient	pekali pencirian struktur
890	structural element	elemen struktur
891	structure	struktur
892	soil-structure interaction	interaksi tanah-struktur
893	dynamic analysis of structures	analisis dinamik struktur
894	vibration test of structure	ujian getaran struktur
895	structural mechanics	mekanik struktur
896	high-velocity layer	lapisan kelajuan tinggi
897	subsequent flow	aliran seterusnya

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Sr.No.	English	Malaysian
898	traffic	lalulintas
899	transportation planning	perancangan pengangkutan
900	snow damage on traffic	kerusakan lalulintas akibat salji
901	transportation terminal	terminal pengangkutan
902	traffic flow	aliran lalulintas
903	traffic distribution	taburan lalulintas
904	public power	janakuasa awam
905	public-land ownership	pemilikan tanah awam
906	high-conductivity layer	lapisan kekonduksian tinggi
907	borehole inclinometer	inklinometer; meter condong lubang gerek
908	borehole logging method	kaedah pengelogan lubang gerek
909	filling up of harbor	
910	ash fall	jatuhan habuk
911	torrent	aliran deras
912	devastated mountain	kemusnahan gunung
913	back marsh	
914	hinterland	daerah pedalaman
915	optical distance-measuring device	alat pengukuran jarak secara optikal
916	optical distance measurment	pengukuran jarak secara optikal
917	postglacial age	zaman pascaglasier
918	postglacial uplift	julangan pascaglasier
919	grant-in-aid	geran bantuan; pemberian bantuan
920	yield stress	tegasan alah
921	yield load	muatan; beban hasil
922	yield function	fungsi hasil
923	yield seismic coefficient	
924	grant reservation	pengrizaban pemberian; geran
925	back scattering wave	
926	lock	kunci
927	sheet-pile revetment	
928	public domain	domain awam
929	rational formula	formula rasional
930	wake	bangun
931	confluence	muara
932	harbor	pelabuhan
933	harbor structure	struktur pelabuhan
934	coda wave	gelombang akhir
935	ice	ais
936	revetment	penambakan
937	ancient landslide	tanah runtuh lampau
938	historical records	rekod-rekod lampau
939	ISC:International Seismological Centre	Pusat Seismologi Antarabangsa
940	Reduction	
941	cencus	banci
942	Geographical Survey Institute	Institut Kajian Geografi
943	ultra-micro-earthquake	gempabumi-ultra-mikro
944	Gross National Product:GNP	keluaran dalam negara kasar (KDNK)
945	National Research Centre for Disaster Prevention	Bencana

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Sr.No.	English	Malaysian	
946	historical or prehistorical earthquake	gempabumi prasejarah atau lama	
947	Palaeozoic Group	Kumpulan Paleozoik	
948	lake sediment	mendapan tasik	
949	Paleozoic Era	Zaman Paleozoik	
950	palaeogene System	Sistem palaeogene	
951	berm	bahu saluran; tanggaaan	
952	stick-slip		
953	traffic management	pengurusan lalulintas	
954	skeleton curve	rangka melengkung	
955	adoptional criteria of national financial aid	kriteria tambahan kepada bantuan kewangan nasional	
956	fixed bed	dasar baikpulih	
957	fixed bed channel	dasar terusan baik-pulih	
958	fixed wier	empangan baik-pulih	
959	Paleo-Tokyo bay	teluk Paleo-Tokyo	
960	lake ice	tasik ais	
961	lake breeze	bayu tasik	
962	natural period	tempoh semulajadi	
963	eigen values	nilai eigen	
964	labor-force participation rate	kadar penyertaan buruh-paksa	
965	Coriolis' force	daya koriolis	
966	solitary wave	gelombang tunggal	
967	concrete	konkrit	
968	concrete pile	cerucuk konkrit	
969	mixed use	penggunaan pelbagai	
970	consistency	ketetapan	
971	consistency limit	had ketetapan	
972	consistency index	indeks ketetapan	
973	multi-phase flow	aliran pelbagai fasa	
974	turbidity current	aliran yang keruh	
975	service industry	industri perkhidmatan	
976	disaster of extreme severity	bencana yang sangat teruk	
977	disaster science	sains bencana	
978	conceptipon of disaster	konsep bencana	
979	hazardous area	kawasan bahaya	
980	disaster scale	skala bencana	
981	the disaster relief law	undang-undang bantuan bencana	
982	police activities against natural disaster	aktiviti polis dalam menangani bencana alam	
983	history of natural disasters	sejarah bencana alam	
984	psychology in disaster	psikologi semasa bencana	
985	human behavior at disaster	perlakuan manusia semasa bencana	
986	recurrence period of disaster	tempoh akan berlaku bencana	
987	disaster information	maklumat bencana	
988	the Disaster Countermeasures Basic Act	akta asas menangani bencana	
989	headquarter for disaster countermeasures	ibu pejabat menangani bencana	
990	investigation of disaster	penyiasatan bencana	
991	damage statistics of disaster	statistik kerosakan bencana	



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Sr.No.	English	Malaysian
992	disaster insurance	insuran bencana
993	disaster relief	bantuan bencana
994	redevelopment basic plan	plan asas pembangunan
995	disaster restoration works	kerja baikpulih bencana
996	disaster culture	budaya bencana
997	damage potential	potensi kerosakan
998	hazard assessment	penilaian bahaya
999	theory of disaster	teori bencana
1000	return period	tempoh kembali
1001	peak hour	masa puncak
1002	OLS:ordinary least squares	
1003	maximum depth of snow cover	
1004	vertex	verteks; bucu
1005	seismic zoning	pengezonan seismos
1006	seismotectonics	seismotektonik
1007	crushed stone	batu hancur
1008	snow sampler	pensampel salji
1009	maximum response displacement	
1010	maximum possible rainfall	hujan maksimum barangkali; munasabah
1011	maximum possible flood	banjir maksimum barangkali; munasabah
1012	maximum instantaneous wind speed	laju angin seketika maksimum
1013	peak gust	badai; langkisan puncak
1014	maximum ampiltude	amplitud maksimum
1015	maximum water equivalent of snow cover	
1016	optimization method	kaedah pengoptimuman
1017	optimum moisture content	kandungan lembapan optimum
1018	secondary landslide	tanah runtuh sekunder
1019	wave breaking	ombak pecah
1020	surf zone	zon luncur
1021	debt limit	had hutang
1022	take-out	
1023	return period	tempoh ulangan
1024	conventional house	rumah konvensional; lazim
1025	sounding	pemeruman
1026	inverted well	perigi songsang
1027	inverted pendulum	bandul songsang
1028	sandstone	batu pasir
1029	fence works	
1030	well drilling	penggerudian perigi
1031	sastrugi	sastrugi
1032	desert	gurun
1033	subduction	benam
1034	erosion control works	kerja kawalan hakisan
1035	Sabo works for environmental improvement project	kerja Sabo bagi projek penambahbaikan persekitaran; alam sekitar
1036	master plan of Sabo works	rancangan induk kerja Sabo
1037	planning for erosion control	perancangan bagi kawalan hakisan
1038	reference point in Sabo works	titik rujukan bagi kerja Sabo
1039	facalities for Sabo	kemudahan bagi Sabo
1040	Sabo designated area	kawasan tentuan Sabo
1041	sediment control dam	empangan kawalan enapan
1042	Sabo investigation	penyiasatan Sabo
1043	regulation for erosion control	peraturan bagi kawalan hakisan
1044	erosion control law	undang-undang kawalan hakisan
1045	sand bars	beting pasir



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Sr.No.	English	Malaysian
1046	mountain weather	cuaca gunung
1047	mountain effect	kesan gunung
1048	delta	delta
1049	triangulation survey	tinjauan; survei penyegitigaan
1050	triangulation station	stesen penyegitigaan
1051	triangulation net	jaringan penyegitigaan
1052	oxidation reaction	tindak balas pengoksidaan
1053	oxygen deficient air	udara kurang oksigen
1054	oxygen deficient layer	lapisan kurang oksigen
1055	reference map	peta rujukan
1056	tertiary creep	rayap tertier
1057	three-dimensional model	model tiga dimensi
1058	triple junction	
1059	acid rain	hujan asid
1060	residual soil	tanah sisa
1061	sector collapse	runtuh; runtuh sektor
1062	disaster around mountainous region	bencana di kawasan/wilayah pergunungan
1063	summit eruption	letusan puncak; kemuncak
1064	sand compaction pile method	
1065	sand bypassing	pemirauan pasir
1066	hillside works	kerja lereng bukit
1067	flank eruption	letusan rusuk
1068	sampling	pensampelan
1069	three components of forces	tiga komponen daya; kuasa
1070	trilateration survey	survei penigasegian
1071	mountain range	banjaran gunung
1072	covered by asphalt on all faces scattering	
1073	scattering source	sumber serakan
1074	attenuation due to scattering	
1075	scattered wave	gelombang terserak
1076	residual strength	kekuatan baki
1077	residual uplift	julangan sisa; residual
1078	rock pressure	tekanan batuan
1079	shear line	garis ricih
1080	C horizon	horizon C
1081	geomagnetic deep sounding	pemeruman dalam geomagnet
1082	seam	kelim; lipatan
1083	jet stream	arus jet
1084	shelter	tempat berteduh; berlindung
1085	geoscope	geoskop
1086	urban renewal	pembaharuan bandar
1087	hyetograph	heitograf
1088	time-counter map	peta pembilang masa
1089	time factor	faktor masa
1090	automatic rain-gauge	tolok hujan automatik
1091	water-stage automatic recorder	
1092	magnetic survey	survei magnet
1093	thixotropy flow	aliran tiksotrofi
1094	site	tapak
1095	subdivision	subbahagian; subdivisi
1096	program	program; atur cara
1097	group of vigilantes participation vector	
1098	participation factor	faktor penyertaan
1099	test	ujian
1100	dimensional analysis	analisis dimensi
1101	experimental basin	besen; lembangan eksperimen
1102	directivity	keterarahan



**Multi-Language Dictionary for Disaster Reduction
developed under ADRC Visiting Researcher Program**



Sr.No.	English	Malaysian
1103	time history response analysis method	kaedah sejarah analisis gerak balas
1104	self-similarity model	
1105	differential thermal analysis	analisis terma bezaan
1106	physical valuation	penilaian fizikal
1107	autonomous fireproofing	
1108	individual disaster prevention	pencegahan bencana individu
1109	voluntary organization for disaster prevention	organisasi sukarela bagi pencegahan bencana
1110	estate	harta pusaka; estet; ladang
1111	bearing capacity	keupayaan galas
1112	bearing capacity factor	faktor keupayaan galas
1113	guide line	garis panduan
1114	earthquake	gempa bumi
1115	seismic energy	tenaga seismik
1116	earthquake response spectrum	
1117	seismology	seismologi
1118	earthquake fire	kebakaran berpunca dari gempa bumi
1119	seismic load	beban seismos
1120	earthquake catalog	katalog gempa bumi
1121	seismicity	keseismosan
1122	seismic gap	jurang; rongga seismik
1123	pattern of seismic activity	corak aktiviti seismik
1124	seismic observation	pencerapan; pemerhatian seismik
1125	seismological observatory	balai cerap seismologi
1126	seismological network	rangkaian seismologi
1127	seismic risk	risiko seismos
1128	seismic risk map	peta risiko seismos
1129	seismogram	bacaan yang dihasilkan oleh seismograf
1130	seismic bedrock	batuan hampar seismik
1131	seismic driving force	daya pacu seismik
1132	seismograph	seismograf
1133	earthquake warning	amaran gempa bumi
1134	earthquake engineering	kejuruteraan gempa bumi
1135	earthquake disaster	bencana gempa bumi
1136	seismic action	tindakan; aksi seismik
1137	earth pressure during an earthquake	tekanan bumi ketika gempa bumi
1138	historical documents of earthquake	dokumen sejarah gempa bumi