SLOPE INCIDENT PROFORMA (SIP)

FILL IN BOXES OR CIRCLE CORRECT ANSWER

SIP Rev/2020

STEP 3 INCIDENT INFORMATION

3.1 SLOPE ID

Eg: 76/2/500/C/L

3.2 INCIDENT ID

Eg: 76/2/500/C/L/I

3.3 OCCURRENCE NUMBER

(Fill in by CKC)

3.4 YEAR BUILT

3.5 ROADSIDE

Left / Right

3.6 COORDINATE REFERENCE

START N E

END N E

3.7 ALTITUDE

m

m

3.8 DATE FAILURE OCCURED

3.9 ESTIMATED TIME FAILURE OCCURED

STEP 4 STATUS OF FAILURE

4.1 SEVERITY CODE

CUTS and NATURAL SLOPES		EMBANKMENTS	
1	Minor shallow failure (<5m in length)	1	Cracks on embankment crest, facilities unaffected, no subsidence, no other evidence of failure
2	Localised surficial loosening, localised evidence of fallen material (rock) at base of slope	2	Shallow failure on embankment surface, no crack or depression on facilities
3	General evidence of fallen blocks and/or boulders at base of slope	3	Arcuate cracks on facilities and/or depression less than 10cm – no mass movement evidence
4	Failure affecting more than one berm but not the whole slope	4	Slope failure with arcuate cracks on facilities and/or depression less than 10cm
5	Failure extending height of slope	5	Slope failure with extensive arcuate cracks on facilities and/or depression greater than 10cm
**arcuate means "in the shape of an arc"*		6	Failure of slope and facilities- diversion/advice required

4.2

NUMBER OF FAILURES PRESENT WITHIN A SLOPE:	THIS IS FAILURE NO.:

4.3 FAILURE TYPE

Toppling/Wedge/Planar/Rockfall
Rotational/Translational/Slump
Circular/Mud flow/Debris flow
Creep/Subsidence

4.4 FAILURE DETAILS

w Width(m)	D Depth(m)	L_f Length(m)	AREA AFFECTED

4.5

	Top	Middle	Base	Whole Slope

4.6 a) SOIL TYPE

b) ROCK TYPE (Filled by geologist)

4.7 MAJOR STRUCTURAL GEOLOGY (Filled by geologist)

4.8 RUNOUT DISTANCE m

4.9 ANGLE OF FAILURE MATERIAL 0

4.10 TENSION CRACK

	Presence of tension crack?		W, maximum width (m)	L, maximum length (m)	Water filled?	
PRIMARY FAILURE	NO	YES			NO	YES

4.11 PRIMARY CAUSE?

APPARENT CAUSE OF FAILURE (**APPLY YOUR ENGINEERING JUDGEMENT**)						
Overly steep	Poor/Weak material	Rainwater (mm/hr)	Erosion	High Groundwater	Geological factor	Other
						(Describe)

4.12 FAILURE MATERIAL (Mark only one)

	Soil	Soil with cobbles	Soil with boulders	Rock	
4.13 VOLUME					Minor (≤50m3) Moderate (>50m3≤500m3) Major (>500m3)

STEP 5 FAILURE IMPACT

5.1 ROAD CONDITION

1	Passable (only minor clearing work required)
2	Passable but required immediate remedial work
3	Passable following minor clearing/remedial work
4	Passable only after clearing/remedial work
5	Closed until completion of major clearing/remedial work

5.2 ESTIMATED ROAD CLOSURE TIME

0 Day	1-2 Days	≥ 3 Days

5.3 FACILITY TYPE AFFECTED BY FAILURE

GROUP	DESCRIPTION
1	Presence of any residential building,commercial office,store,shop,hotel,factory,school,power station,ambulance station , market, hospital, clinic,welfare centre, bus shelter,dangerous goods storage area
2	Road built up area(e.g. indoor carpark,building,mosque,church,temple,manned substation,sewerage treatment plant, railway, flyover, subway, reservoir, construction site)
3	Densely used open space and public waiting area (e.g. playground, open carpark, picnic area)
4	Ligthtly used open air- recreation area, non-dangerous goods storage area, intensive agricultural area, golf course
5	No facilities present or remote area (e.g. jungle, plantation, forest, low intensity agriculture)

5.4 INJURY/FATALITY/DAMAGES

a) No. of people injured	
b) No. of fatality	
c) Other damage & number	1.Building ( ) 2.Bridge ( ) 3.Vehicle ( ) 4.Livestock ( ) 5.Other (Describe)
d) Estimated economic loss (RM)	Densely used open space and public waiting area (e.g. playground, open carpark, picnic area)

5.5 ENGINEERING JUDGEMENT (IN YOUR OPINION)

a)	The consequence of a failure at this location was	Low	Moderate	High
b)	Probability of additional movement	Low	Moderate	High
c)	Probability of significant impact to the roadway, structures, adjacent properties or features	Low	Moderate	High

STEP 6 SITE SKETCH

6.1 SITE SKECTH: (Use additional paper if required)

6.2 PHOTOGRAPH: (Please include picture reference) FAILURE
(e.g. Areas of heavy seepage, surface flow, saturated ground, etc)

6.3 GEOLOGY/TOPOGRAPH/DRAINAGE SKETCH: (By geologist)

(e.g. Rock boundary, geological feature, stream, spring and others)

6.4 EYE WITNESS ACCOUNT:

(e.g. Weather when failure occurred, antecedent weather, speed of failure, and other details)

6.5 GENERAL COMMENTS: (If any. Use additional paper if required)

STEP 7 QUALITY ASSURANCE

7.1 CHECK LIST:

	YES	DATE	NAME	INITIAL	
COMPLETION CHECK UNDERTAKEN					TO BE COMPLETED IN THE FIELD
TRANSFER TO SOFTCOPY					TO BE COMPLETED IN FIELD OFFICE