

Standard Operation Procedure (SOP) for smooth EOR

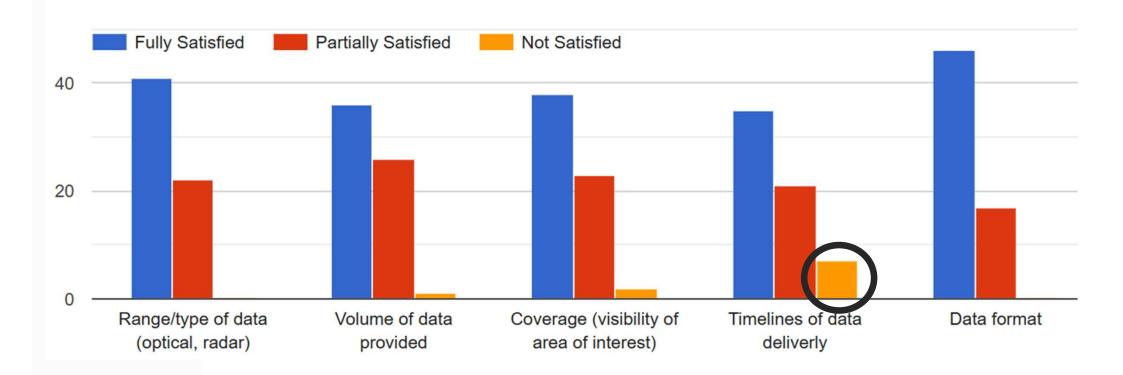
Makoto Ikeda, Asian Disaster Reduction Center (ADRC) Chihori Tatebe, Asian Disaster Reduction Center (ADRC)

The 8th Joint Project Team Meeting (JPTM)
"Expand Space Innovation through Diverse Partnerships"
September 17th-18th, 2023
Auditorium room, BRIN Headquarter located at Jalan MH Thamrin Jakarta

Background

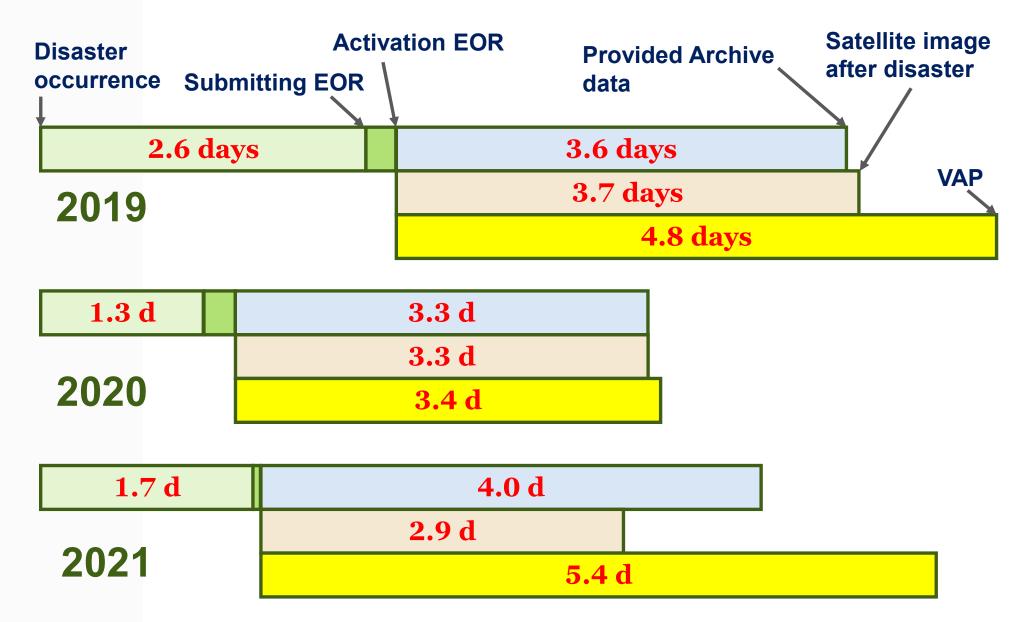
Questionnaire on EOR (Impression)

✓ <u>Did our response or provided data meet your expectations?</u>



It was slightly not satisfaction regarding "Timeline of data deliver". How about actual data???

Questionnaire on EOR



Need to consider a "swift activation after disaster"
- > SOP is one of our suggestion (to be explained on DAY 2)

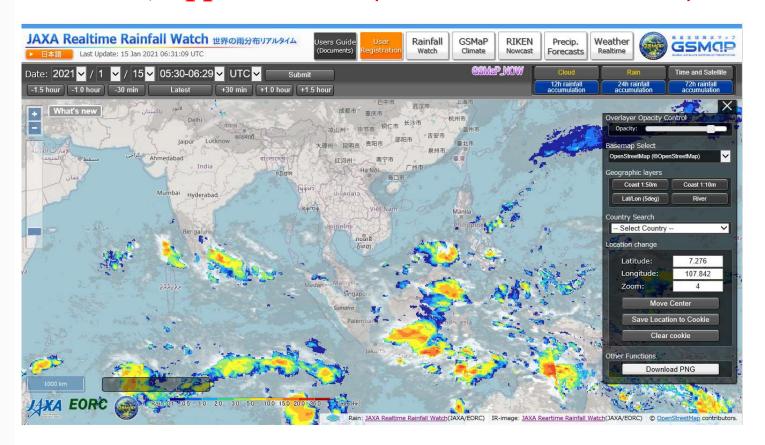
[CRITERIA of each disaster for EOR]

1. Earthquake: Mercalli Intensity Scale (MMI), VII or more

CIIM Intensity	People's Reaction	Furnishings	Built Environment	Natural Environment
ı	Not felt			Changes in level and clarity of well water are occasionally associated with great earthquakes at dis- tances beyond which the earth- quakes felt by people.
Ш	Felt by a few.	Delicately suspended objects may swing.		
Ш	Felt by several; vibration like pass- ing of truck.	Hanging objects may swing appreciably.		
IV	Felt by many; sen- sation like heavy body striking building.	Dishes rattle.	Walls creak; window rattle.	
٧	Felt by nearly all; frightens a few.	Pictures swing out of place; small objects move; a few objects fall from shelves within the community.	A few instances of cracked plaster and cracked windows with the community.	Trees and bushes shaken noticeably.
VI	Frightens many; people move unsteadily.	Many objects fall from shelves.	A few instances of fallen plaster, broken windows, and damaged chimneys within the community.	Some fall of tree limbs and tops, isolated rockfalls and landslides, and isolated liquefaction.
VII	Frightens most; some lose balance.	Heavy furniture overturned.	Damage negligible in buildings of good design and construction, but considerable in some poorly built or badly designed structures; weak chimneys broken at roof line, fall of unbraced parapets.	Tree damage, rockfalls, landslides, and liquefaction are more severe and widespread wiht increasing intensity.
VIII	Many find it difficult to stand.	Very heavy furniture moves conspicuously.	Damage slight in buildings designed to be earthquake resistant, but severe in some poorly built structures. Widespread fall of chimneys and monuments.	
IX	Some forcibly thrown to the ground.		Damage considerable in some buildings designed to be earthquake resistant; buildings shift off foundations if not bolted to them.	
х			Most ordinary masonry structures collapse; damage moderate to severe in many buildings designed to be earthquake resistant.	

[CRITERIA of each disaster for EOR]

2. Flood: Rainfall, Upper "200mm/24 hours" or "400mm/72 hours"



GSMaP is a multi-satellite global precipitation dataset of "Global Precipitation Measurement Mission" or "GPM Mission", jointly led by JAXA and NASA. GSMaP is composed of JAXA's radar sensor named Dual-Frequency Precipitation Radar (DPR), and GPM partners' microwave radiometers, and infra-red imagers onboard constellation satellites. GSMaP provides hourly horizontal distribution of precipitation with few latency after observation. *GSMaP website "JAXA Realtime Rainfall Watch":

https://sharaku.eorc.jaxa.jp/GSMaP_NOW/index.htm

[CRITERIA of each disaster for EOR]

3. Cyclone (or Typhoon, Hurricane): Saffir-Simpson Scale

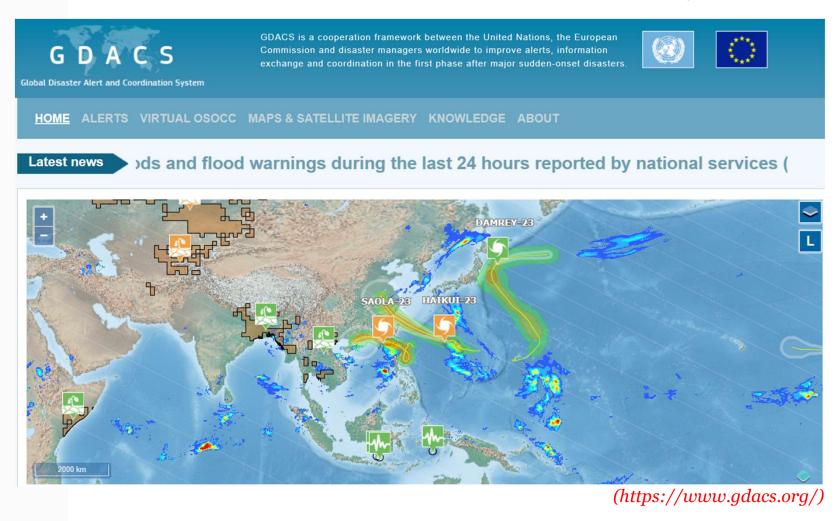
Hurricane Intensity Scale (Wind Damage)



Category 1 75 - 95 mph Wind speed | 33-42 ms⁻¹ Category 2 96 - 110 mph 43-49 ms⁻¹ Category 3 111 - 130 mph 50-58 ms⁻¹ Category 4 131 - 154 mph 59-69 ms⁻¹ Category 5 155 + mph 70+ ms⁻¹

[CRITERIA of each disaster for EOR]

All of disasters: GDACS (Global Disaster and Coordination System)



ADRC considers to make a EOR when we receive a red-alert from GDACS. This activity will be mentioned on SOP.

About Standard Operation Procedure (SOP)

- For making swift EOR after disaster -

What is "OPTEMIS"

The new system for EOR, named "OPTEMIS", was developed by the collaboration of JAXA, GISTDA, and NARL started its operation on 28 October 2019. "OPTEMIS" enable easy-registration for making EOR.



You can create a OPTEMIS account as POC of each JPT member.

Objective of SOP for "EOR"

SOP is aimed at contributing to practical and effective disaster management activities through collaboration with JPT member and disaster management organizations. by making EORs to Sentinel Asia as promptly and timely as possible.

This SOP describes the procedure of EOR via OPTEMS following CRITERIA of each disaster, and defines the role to be played by each stakeholder.

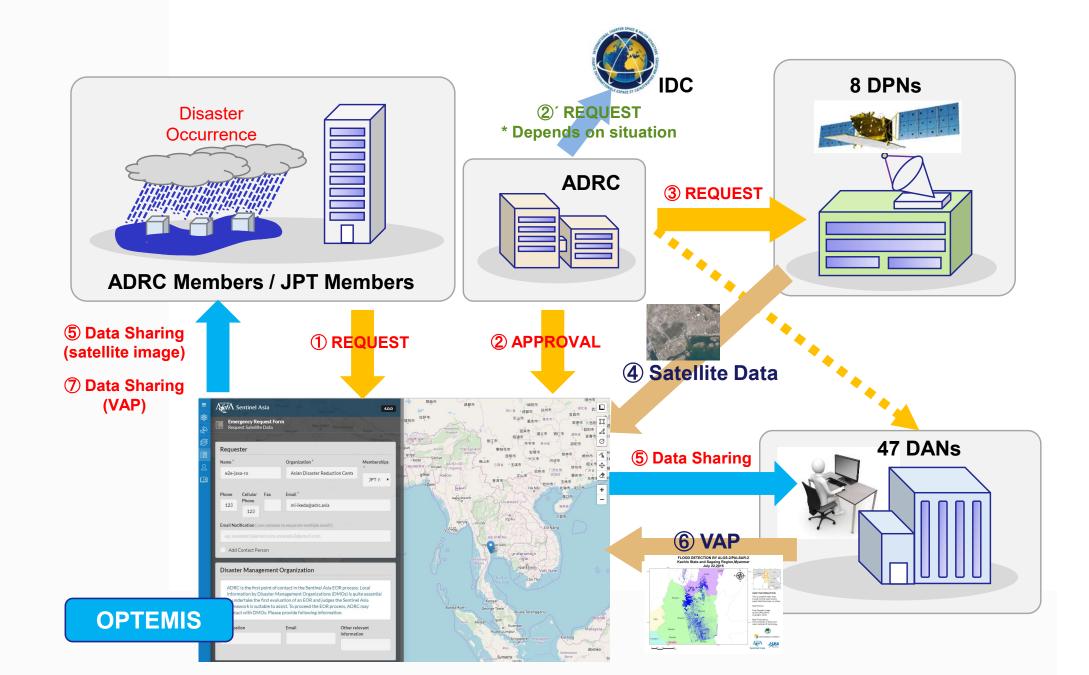


Developed "SOPs"

Target country/regio	Collaboration organizations n	Established in
Myanmar	DMH, DDM, MIMU, (AHA Centre)	March 2021
Thailand	GISTDA, DDPM, ADPC, (AHA Centre)	March 2021
Vietnam	MARD, MONRE, VAST, (AHA Centre)	March 2021
Central Asia an	CAIAG, Ministry of Emergency Situations (Kyrgyz Republic) Committee of Emergency Situations and Civil Defense (Tajikistan) Ministry of Emergency Situations (Uzbekistan)	February 2022
Cambodia	National Committee for Disaster Management (NCDM)	February 2022
Lao PDR	Ministry of Labour and Social Welfare	February 2022
Pacific Island Countries	National Disaster Management Office (Fiji) National Disaster Management Office (Solomon Islands) Secretariat of the Pacific Community (SPC/SOPAC)	February 2022

How to Request?

Procedure of Emergency Observation Request (EOR)



Contents of SOP is as:

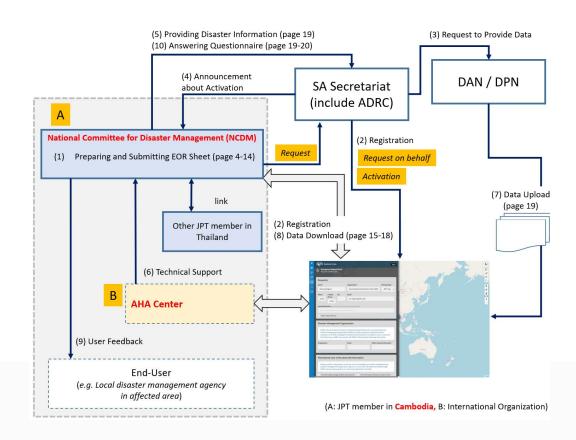
- 1. Preface
- 2. Preparing and Submitting EOR (compulsory action)
- 3. Use of Satellite Images and Value-Added Products (VAP)
- 4. Providing Disaster Information and Feedbacks

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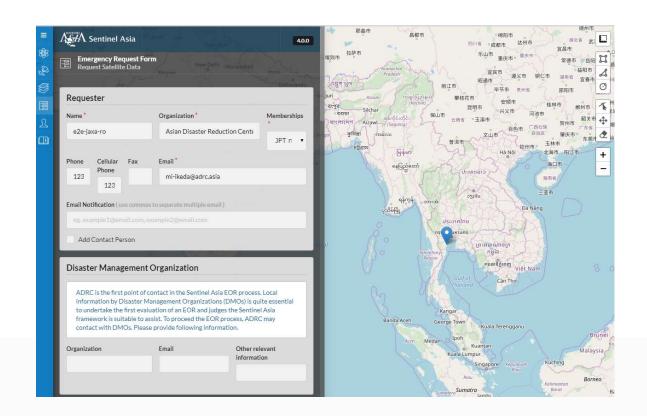
Basic information about this SOP (e.g., Objectives, member list, and flowchart) is shown.



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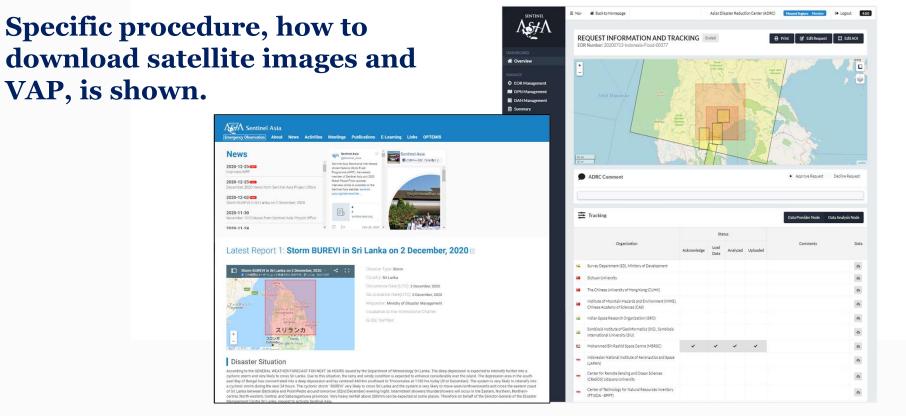
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Specific procedure for "OPTEMIS" is shown.



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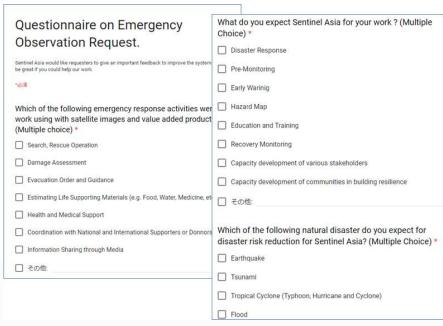


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Mobile APP and Questionnaire survey about your EOR is shown.



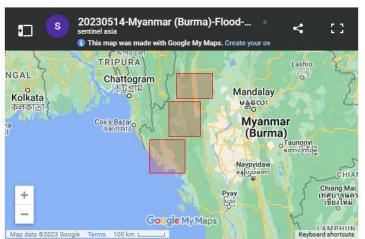


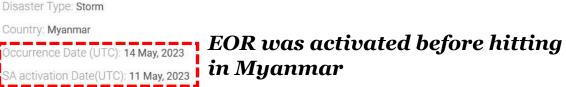
Good Practice following SOP

2023-05-14

Cyclone MOCHA in Myanmar on 14 May, 2023

Emergency Obs. Request Information

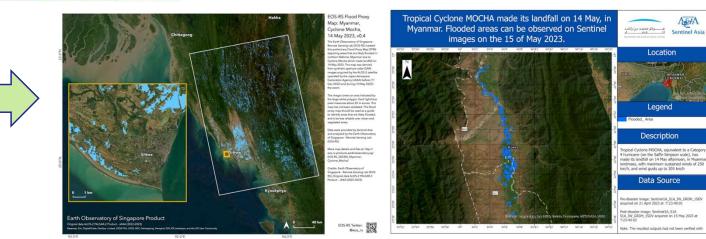




Requester: ASEAN Coordinating Centre for Humanitarian Assistance on disaster management (AHA Centre)

Escalation to the International Charter: Yes

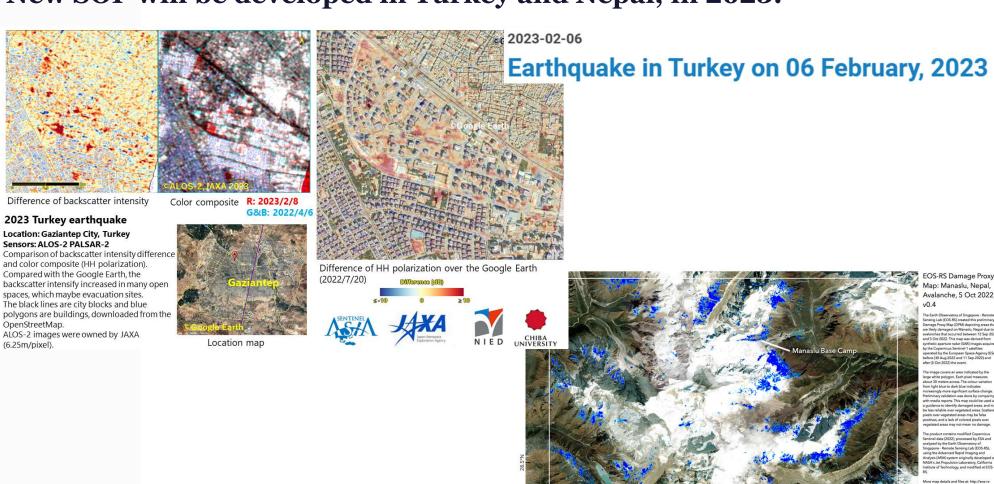
GLIDE Number: TC-2023-000069-MMR



SA confirmed a risk of cyclone MOCHA before hitting to Myanmar. ADRC made a EOR into OPTEMIS on behalf of AHA Center, following SOP.

SOP for Nepal and Turkey (2023)

New SOP will be developed in Turkey and Nepal, in 2023.



2022-10-02

[Announcement]

Sentinel Asia Annual Report 2023



SENTINEL ASIA
ANNUAL REPORT 2022

	Sentinel Asia Activity Report in 202
Center	(ADRC)
onal co	nferences

IA Centre Executive (ACE) Programme, which ity. This webinar was held in an online format,

domoustration of an application, followed by bands-on session using the

terms and conditions as well)

and reported on the latest DRR technology transfers among related DRR organizations. ADRC gave a presentation that included the following case studies: (i) Outline of the Sentinel Asia, (ii) Trend of an Emergency Observation Request, and (iii) How to register disaster information into the OPTEMIS which is a system for making EOR.











| Time (RST) | Agrido Bren | Speciale Moderates | 2 - opening and introduction | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-1540 | 300-154

Please submit your SA report in 2022.

(to: mi-ikeda@adrc.asia)

- Emergency Observation Request
- Conference
- Your own DRR activity
- Training
- Internal meeting
- etc.

Deadline is 20 October 2023!!