



មជ្ឈមណ្ឌលសកម្មភាពកំចាត់មីនកម្ពុជា
Cambodian Mine Action Centre

CMAC

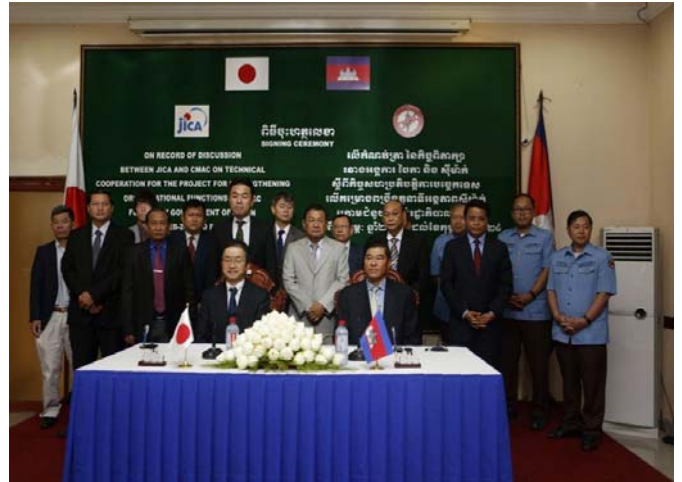
Operational Achievement Report



January - 2020



CMAC Monthly Operational Achievement Report Period: 01 – 31 January 2020





1. General Situation

In the beginning of 2020, CMAC has reformed the organization chart of some demining tools such as Brush Cutting Team consisting 9 persons to 15 people, Demining Machine team comprising of 13-21 people to 15 persons, Technical Survey and Clearance team comprising 7 persons to 5 people and Explosive Remnants of War Intervention team consisting of 5 persons to 4 people. The purpose of reform is more effective, efficient operations. However, in January 2020, all CMAC Demining Components and Demining Units were assigned to work for 21 working days with 2-day was day off for 1-day of International New Year (01 January 2020) and another 1-day for 7-Makara(01 January 2020). But each Demining Unit was still permitted to perform demining tasks based on the proposed working calendar approved by the CMAC top management the same as last year. Anyway, a lot of requests for small scale clearances were requested by the local authority to CMAC for emergency response and escape them from the target area for safe manner and better environment to our people to avoid from having high risk of mine incident and future affection. However, during this reporting period, CMAC deployed its demining resources in each Demining Unit (DU) to clear the contaminated landmine and battlefield areas; and handed over them to those whom requested in purposes of using land in according to their requests for agriculture; developing and also for the risk reduction activity in their communities. In addition, CMAC also deployed at least 7 Intervention Teams, called Explosive Remnants of War Intervention (ERWI) at DU1, DU2, DU4, DU6 and TIMA and as well as the 4 Battle Area Clearance–Multi Task Teams (BAC-MIT) to respond the emergency call/tasks by collecting and destroying safely those mines and UXO reported by local authorities, NGOs and community population in terms of providing them the safe environment of daily living condition and doing agricultural activities in their communities without any fear feeling and the threats from mine and ERW. The detail tasks and progress achieved for the month of January 2020 is represented as the following:

2. Deployment Tools (Asset)

In regard to 21 working days, CMAC still deployed its demining resources to each Demining Unit, Head Quarters, Development Demining Unit (DDU) and CMAC Technical Institute of Mine Action (TIMA) as the month before. However, all CMAC demining teams are still working to support many landmine/ERW high priority clearance tasks selected through the National Planning Mechanism, often refers to as MAPU process, as participatory and bottom up approach methods to mine action planning; and urgent humanitarian and development supported tasks requested by local authorities and mine/ERW affected communities. The following table 1 shows us the demining tools (asset), which were deployed for each Demining Unit.



Table 1: January 2020

Demining Tool	Actual Demining Assets (Tools)																								
	MP (27staff)	BAC-I (16staff)	BAC-S (5staff)	BAC-S (7staff)	TSC (5staff)	TSC (7staff)	BLS (5staff)	NTS-BLS	SLD (2dogs)	SLD (4dogs)	EDD (2dogs)	ESD (4dogs)	TSD (2dogs)	MDR (4rats)	ERWI	EOD	BAC-MIT	DIT	BC-2staff	BC-9staff	BC-15staff	CDM	DM-3staff	DM-15	CBM/CBU
DU#1(BMC)	1	-	-	-	4	-	-	-	-	-	-	-	-	-	1	-	-	-	1	2	-	-	1	-	5
DU#2(BTB, PST)	4	-	-	-	13	4	-	1	4	3	-	-	-	-	2	-	-	-	3	2	-	-	-	8	12
DU#3(PLN)	-	-	-	-	4	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
DU#4 (SRP & Kg. Thom, PVH)	-	-	-	-	-	2	-	-	-	-	-	-	-	1	1	-	-	-	1	1	-	1	1	-	3
DU#5 (Eastern provinces)	-	4	4	5	-	-	10	-	-	-	2	-	-	-	-	-	4	-	1	-	-	-	-	-	4

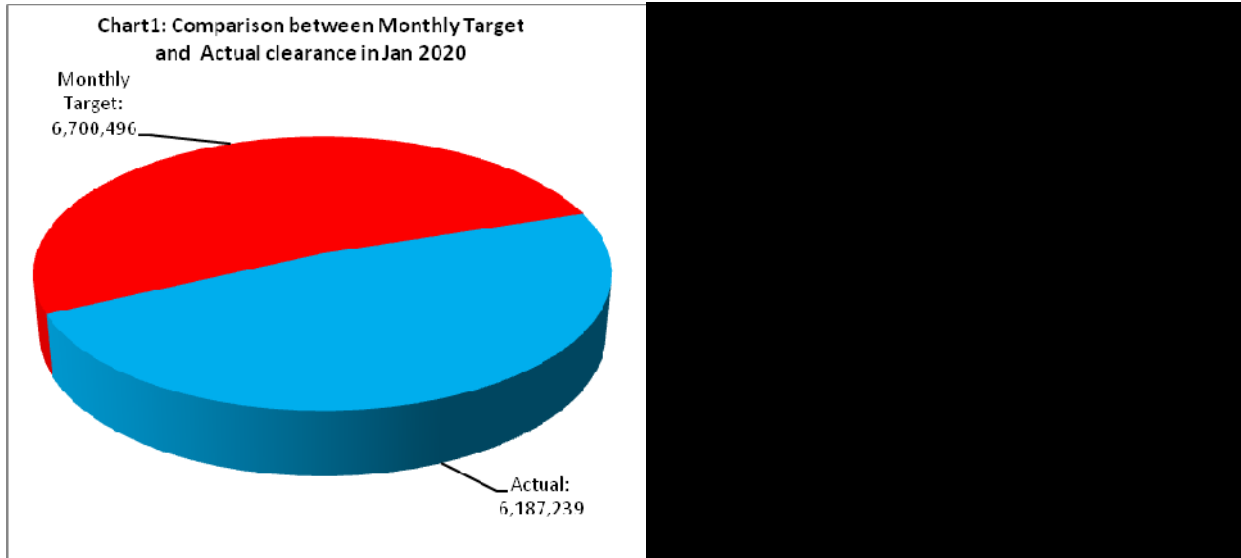


DU#6 (PVH, STR& OMC)	-	-	-	-	7	-	-	-	-	-	-	-	1	1	2	1	-	-	1	-	6	-	-	-	6
Development Demining Unit (DDU)	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-	1	-	-	5	1	-	-	-	-	-
CMAC HQ (Phnom Penh)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
CMAC Technical Institute of Mine Action (TIMA)	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	2	-	-	-	-	-	-	-
National Dog Center (NDC)	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Community Development Center (CDC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
Total Teams	5	4	4	5	27	14	10	2	3	3	2	1	1	2	7	2	4	2	14	6	6	1	2	8	33

Note:

3. Summary of Progress

However, as mentioned on the results of January 2020; a total of **6,187,239m²** of land has been released throughout the country. This includes **3,258,954m²** of minefield areas, and **2,907,046m²** of UXO field areas and **21,239m²** of areas cleared without sketches for safety principles, which is **92.34%** comparing to the monthly target of **6,700,496m²** in 2020. But if this is compared to the same period of January 2019 (as of 6,833,413m²), it is **9.46%** less than the progress of January 2019. The details of CMAC accumulated operational summary progress report from 1992 up-to January 2020 is showing in **ANNEX-A**, and the monthly progress by each DU is represented in **ANNEX-B**. The below Chart.1 is demonstrating the monthly target Vs progress achievement accomplished in January 2020.



A part of the above mentioned; at least **924** AP mine, **26** AT mines and **2,453** ERW were found and destroyed safely. If comparing these items (mines and Explosive Remnants of War) found and destroyed in January 2019 (as of **3,403** items) to the monthly target in 2019 (as of 3,333 items), it is **102.10%**. The Chart 2 above is represented the device found and destroyed by comparing to monthly target of mine/UXO in January 2020.

4. Allocation of Demining Tools (Assets) by Project:



In addition to the deployment by each Demining Units (DU) and progress achieved during the month, CMAC also deployed its demining resources (assets) to support each project so that they may respond to the project's target as said within the project agreement and also to meet the project's requirement as the following resources in Table 2:

Overview of the Committed Assets by Project

Table 2:

S/N	Project's name	Jan-20	Remarks
1	DU1-CRF18 (3 rd Top Up)	4TSC&1BCT	1)-This project starts 01 Jan to 31 Dec 2019. 2)- 5TSC(#07, 11, 13,24, &28), 2BC(#08&11) and 3 CBMRR start 01 Sep to 31 Dec 2019 (Top up). 3) 4TSC(# 11, 13,24, &28) 1BC start 01 Jan to 29 Feb 2020 (3 rd Top up).
2	DU1,-PCD-JMAS	1MP,2BC, 1DM, 1ERWI	1)-This project starts from 08 Oct 2019 to 07 Oct 2020.
3	DU1-SVC (Infrastructure),	1Buldozer, 1 Compact roller, 1 dump truck, 1 Excavator	1)-This project is just renewed for a new agreement from 01 April 2019 to 31 March 2020.
4	DU2-CFR19(3 rd Top Up)	1BC, 3TSC, 1SLD,	1)-This project starts 01 Jan to 31 Dec 2019. 2)- 2TSC(#08&12) and 3 CBMRR start 01 Sep to 30 Nov 2019 (Top up). 3) 5TSC(# 01, 07,08, 12 &15), 1BC, 1CBM &1SLD start 01 Jan to 29 Feb 2020 (3 rd Top up).
5	DU2, NTS.BLS	1NTS	This project starts from 01 Oct 2019 to 31 Jan. 2020.
6	DU2-CAC (IMCC)	1TSC	This project is just renewed for a new agreement from 16 August 2019 to 15 August 2020.
7	DU2-CPF	4MP, 8DM, 11TSC, 3SLD, 2ERWI, 1BC, 12PC&CBM, project staff	1)- CPF project starts from 01 Jan to 30 Jun 2020.
8	DU2-MAG	3SLD	1)- This project is renewed from 01 May 2019 to 30 Apr 2020. 2)-SLD#05 has been hired by MAG for a year (01 Jun 2019 to 31 May 2020)
9	DU3-CFR20 (3 rd Top Up)	3TSC, 1PC-CBM	1)-This project starts from 01 Jan 2019 to 31 Dec 2019. 2)-) 3TSC(# 09, 19 &30) & 1CBM start 01 Jan to 29 Feb 2020 (3 rd Top up).
10	DU3-CPF	2TSC	1)- CPF project starts from 01 Jan to 30 Jun 2020.
11	DU3-CMA-19	2CBM-PC, DU3 some office staff	
12	DU3, NTS.BLS	1NTS.BLS	This project starts from 01 Oct 2019 to 31 Jan. 2020.
13	DU4-MDR-APOPO	1BC, 1TSC,1MDR	1)-This project starts on 01 Jan to 31 Dec 2020 (MRD#01, TSC#22 , BC#25).
14	DU4, CMD_JMAS	1CDM, 1BC, 1DM, 1ERWI, CBURR	This project starts on 01 March 2019 to 28 February 2020.
15	DU4-CCL2	2PC&CBM& 18 office staff	1)-This project starts from 01 Jan to n31 Dec 2020. 2)-ERWI#02 supported by DU6, its workbase at DU4.
16	DU4-Peace Boat	1TSC	This project starts on 1 May 2019 to 31 Jan 2020.
18	DU5& HQ –USA23	9BAC-S, 4BAC-L, 4BAC-MTT, 2EDD, 1BC	1)-This project starts on 01 March 2019 to 28 February 2020.
19	DU5_USA-23 (BLS)	10 BLS	1)-This project starts on 05 August 2019 to 29 February 2020.
20	DU6_CCL2	2ERW, 5TSC, 6BCT, 6CBM& 18 office staff	This project starts from 01 Jan to 31 Dec 2020.
21	DU6-APOPO	1MDR, 2TSC, 1BC, 1TSD	1)-This project starts on 01 Nov 2019 to 31 Jul 2020 (TSC#20&TSD#01). 2)- This project starts on 01 Jan to 31 Dec 2020 (TSC#05, BCT#22&MDR#02).
22	DDU-EDC-7-8	2TSC	-This project starts on 16 Mar 2019. -1ERW, 1TSC start working on 25 Nov 2019 to 29 Feb 2020.

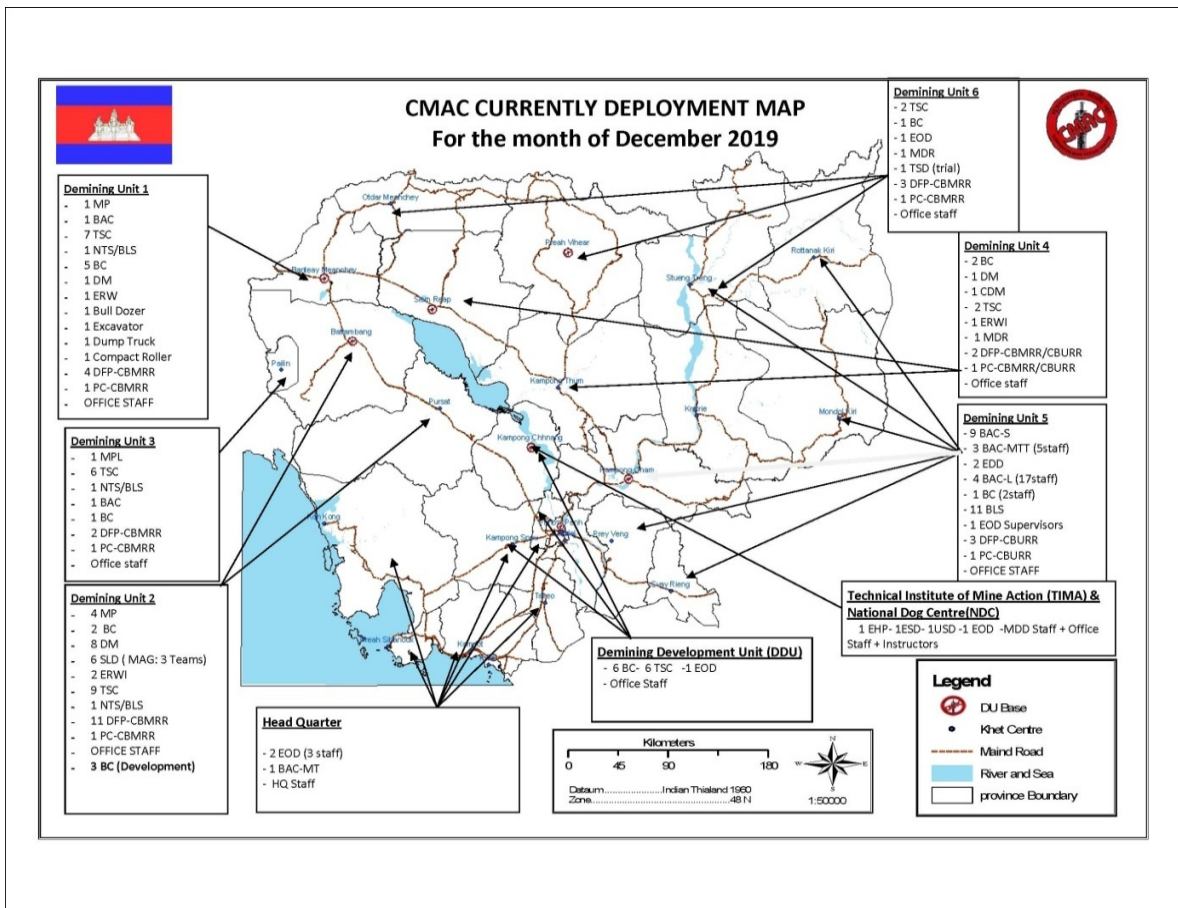


មជ្ឈមណ្ឌលសកម្មភាពកំចាត់មីនកម្ពុជា
CAMBODIAN MINE ACTION CENTRE

S/N	Project's name	Jan-20	Remarks
23	DDU-NR5-4(RGC16)	2BC	This project have been renewed from 1 Jan to 30 Jun 2020.
24	DDU-NR5-4(RGC17)	3BC,1TSC	This project have been renewed from 1 Jan to 30 Jun 2020.
25	DDU-NR5-4(RGC18)	1BC,3TSC	This project have been renewed from 1 Jan to 30 Jun 2020.
26	HQ_CMA-19	2EOD	This project starts on 01 May 2019.
27	TIMA-CCL2	2DIT, 1ERW& 35 office staff & instructors	This project starts from 01 Jan to 31 Dec 2020.
28	NDC_CMA-19	1ESD, 35 staff	This project starts from 01 Jan to 31 Dec 2020.
29	TC- Golden West foundation	1Explosive Harvesting team (8persons)	Reference to MOU- dated: 27-DEC-2017, This MOU entered force on 01 Jan 2018. This project starts 01 Jan 2018 to 31 Dec 2020.
30	Community Development Center (CDC)	2BC	

The below figure is the CMAC deployment map as of January 2020

Figure:1





a. Teams Deployed Vs Staff of the month of January 2020

Table 3:

Demining Tool/Asset	No. of Teams	No. of Staff per Team	Total staff in Jan 2020	Actual Staff		Different	Remarks
				Male	Female		
MPL-27staff	5	27	135	100	11	24	
BC-15staff	6	15	90	59	6	28	
BC-9staff	6	9	54	49		2	
BC-2staff	14	2	28	28			
DM-15staff	8	15	120	105	10	5	
DM-3staff	2	4	4	4			
CDM-(9staff)	1	9	9	9			
SLD	4	10	40	29	9	2	Not including SLD#03, SLD#05 and SLD#12 hired to MAG.
EDD	2	6	12	11	1		
TSD	1	5	5	5			
TSC-7staff	14	7	98	95	1	2	
TSC-5staff	27	5	135	123	5	7	
NTS.BLS-5staff	2	5	10	10			
BLS	10	5	50	49	1		
BAC-S(7staff)	5	7	35	26	9		
BAC-S(5staff)	4	5	20	20			
BAC-L (16 Staff)	4	16	68	66	2		
BAC-MTI	4	5	20	20			
EOD-5staff	0	5	0	0			
EOD-3staff	2	3	6	6			
ERWI	8	5	35	35			
MDR	2	10	20	14	6		
CBMRR	33	1	32	26	6		
ESD	1	5	5	3	2		
DIT	2	5	10	10			
Total	167		1,041	902	69	70	

Note:

- Base on the different figure between teams deployed and staff, it shows that at least **0.42%** was lost during the reporting period.

b. Planned and actual operational team-days of the month of January 2020

Table 4:

Tools/Assets	No. of Tools	Operational team days in Jan 2020		Different	Remarks
		Planned	Actual		
MPL	5	105	81	24	- In average, one MP 4.80 team.day a month. 4 MP of DU2_CPF got refresher training from 2 nd to 10 th January 2020.
BC	26	546	500	46	- In average, one BC 1.77 team.day a month. 7 BC of DU2_CPF and DU6_CCL2 got refresher training from 2 nd to 10 th Jan. 2020.
DM	10	210	141	69	- In average, one DM 6.90 team.day a month. 8 DM teams of DU2_CPF got refresher training from 2 nd to 10 th January 2020.



					and DU1_JMAS fixed whole month .
CDM	1	21	21		
SLD	4	84	51	33	- In average, one SLD 8.25 team.day a month. 3SLD of DU2_CPF got refresher training from 2 nd to 10 th January 2020 and SLD#06 . It's car was fixed whole month.
EDD	2	42	42		
TSD	1	21	18	3	-In average, one STD 3 team.day a month. TSD#01 of DU6_APOPO got refresher training .
TSC	41	861	801	60	- In average, one TSC 1.46 team.day a month. 18 TSC of DU2_CPF and, DU6_CCL2 got refresher training from 2 nd to 10 th January 2020.
TNS.BLS	2	42	42		
BLS	10	210	210		
BAC-S	9	189	189		
BAC-L	4	84	84		
BAC-MTT	4	84	84		
EOD	3	63	63		
ERWI	6	126	98	28	- In average, one ERWI 4.67 team.day a month. 4 ERWI of DU2_CPF and, DU6_CCL2 got refresher training from 2 nd to 10 th January 2020.
MDR	3	63	60	3	-In average, one MDR 3 team.day a month. MDR#01 of DU4_APOPO got refresher training .
CBMRR	33	693	693		
ESD	1	21	21		
DIT	2	24	24		
Total	167	3,507	3,241	266	

Note:

- In average, each mobile platoon and mobile team loses at least **1.59%** working days (team.day) due to :Especially, the movement of teams to new minefields and meeting; receptions of delegations and/or guests who visited the minefields and public holiday as mentioned in page 2, that are the cases of losing working days and progress during the reporting period.

5. Activities Output

a) Completion Minefield:

As part of above description, at least **30** mine/ERW fields have been cleared completely by the Demining Units, DDU and Head Quarters during the reporting period. All completed mine/ERW fields have been handed over to the local authorities and communities for productive purposes in accordance with their requests. The **Annex-C** attached shows the detail list of completed mine/ERW fields and some of them are on-going. Among those minefields cleared, it shows the number of beneficiaries as shown in table 5:



b) Number of Minefield and Socio Beneficiaries as of January 2020

With this regard, CMAC mine action activities contribute significantly to the country in terms of mine/UXO casualty reduction. They also contribute to the enhancement of livelihood, settlement, socio-economic and infrastructure activities for individual and also for the affected community development so as to meet the National Strategy of poverty reduction. Without demining, most development activities may not be taken place caused by



landmine and UXO contamination. Therefore, the CMAC's mine action activity is still at the top important issue and requirement of the Royal Government of Cambodia to assist Cambodians' people and develop its country as well without the threats of landmine/ERW.

Anyway, during this reporting period, landmine and ERW clearance as of January 2020 provided at least **83** families as direct beneficiaries and 4,106 families as indirect beneficiaries. The Table 5 below is showing us the number of minefields completed and beneficiaries by each DU:

Table 5:

DU _s	No. of M/Fs released	Area (qsm)	Beneficiaries			No. of M/Fs On going	No. of M/Fs suspended	No. M/Fs handed over
			(Family)					
			Direct	Indirect	Student			
DU1	7	109,622	15	-	-	6	-	7
DU2	13	350,706	10	3,773	-	25	-	13
DU3	1	17,950	1	-	-	4	-	1
DU4	2	128,983	4	220	-	4	-	2
DU5	4	748,055	19	-	-	18	-	4
DU6	3	188,234	34	113	-	13	-	3
Total	30	1,543,550	83	4,106	-	70	-	30

c) Land Released Productivities as of January 2020

The overall progress achievement for the month of January 2020 was **6,187,239 m²**, which was **90,464 m²** was released as C1, **1,308,683 m²** was released as C2, and **4,766,853 m²** was released as C3 and **21,239 m²** was released by spot check to move ERW out from the small pits and prepare administration and safety areas for operations respectively. In addition, at least **1,451** items of Mine/ERW (454 AP, 25 AT and **972** ERW) were found in the affected landmine and UXO contamination areas to destroy safely. And it should be noted that these figures (mine/UXO found) as mentioned above are not included with the number of devices found and destroyed by EOD teams during the reporting period.

The below table 6 provides a summary of productivity achieved during the reporting period implemented by all Demining Units for the month of January 2020.

Table 6: Summary of productivity achieved:

Land Released Categories	Area (m ²)	AP Mine destroyed	AT Mine destroyed	ERW destroyed	IP Mine destroyed	Fragment	Small Arm(kg)
C1 area released	90,464	-	-	-	-	-	-
C2 area released	1,308,683	23	0	86	-	5,498	-
C3 area released	4,766,853	431	25	883	-	117,010	-
Other Clearance	21,239	-	-	3	-	1,085	-
Total	6,187,239	454	25	972	-	123,593	-

Note: - Above number of mines and ERW is not included EOD teams' ones.

d) BLS operational progress report



11 Baseline Survey teams (BLS) have been deployed to conduct the Baseline Survey services at the Eastern provinces of Cambodia as said above and they are under command and control of CMAC DU5 under the additional budget of USA (addendum), called USA-23 project. This project starts from August 5, 2019 to February 29, 2020. The Project Plan is to do survey in 744 villages responded by 11 BLS teams for 7-month period. In results, **103** villages were visited in January 2020, and it is **96.26%** more than monthly target plan 2020 (as of **107** villages per month). In total from August 2019 to January 2020, all teams visited **654** villages; it is **87.90%** by comparing to the project target (as of 744 villages). Regarding this activity, those teams achieved the following results:

Table 7:

Description	January 2020	Accumulative (Aug 2019 – Jan 2020)
Number of villages visited	103	654
Number of new BLS polygons discovered	248	1,246
BLS size (m ²)	30,019,356	169,839,341

Note: progress above including **60** BLS polygons and BSL size: **5,268,436** m² have been discovered by 2 NTS-BLS have been deployed operations at DU 2, 3 under support of Clearing For Results (CFR) project.

e) EOD Team Operational Achievement

In addition to the deployment of demining platoons and mobile teams, during the reporting period CMAC deployed at least 2 EOD teams, and other demining tools such as, BAC-MTT, ERWI, BAC etc throughout the country to collect and destroy mines and ERW reported by local authorities, local people, policemen and NGOs. Anyway, some of EOD teams were deployed at various Demining Unit, CMAC Technical Institute of Mine Action (TIMA), Development Demining Unit (DDU) and Headquarter. This includes 2 EOD and 1 BAC-MTT teams were deployed in CMAC headquarters to respond the urgent requests around Phnom Penh municipality, Kandal, Kampong Speu, Takeo, Kampot, Preah Sihanouk and Koh Kong provinces and others else were fully deployed to respond at the northwestern provinces of Cambodia such as in Battambang, Pursat, Pailin under DU2. By the way, in results to compare the number of **256** requests (EOD calls) in January 2020, it is **61.39%** lower than monthly target plan 2020 (as of **417** requests). They did this better work to provide a safe environment from the threat and fear of mines and ERW in the country. Regarding this activity, those teams achieved the following results:



Table 8:

Description	January 2020	Accumulative Progress (Jan– 2020)
Areas Cleared (Spot check) in m ²	8,209	8,209
# EOD tasks conducted (Responded)	256	256
# APM destroyed	470	470
# ATM destroyed	1	1
# ERW destroyed	1,481	1,481
# Improvised mines destroyed	-	-
# Small Arms Ammunition (kg)	91	91
# Fragment (pieces)	1,172	1,172

Note: -During the reporting period, at least **238** requests with **470** AP mines and **1,448** were collected and destroyed by 7ERWI, 4BAC-MTT and DU5 OPS section, ERWI#16, (DU1), ERWI#13,18



(DU2),ERWI#01(DU4), ERWI#02,08(DU6) ERWI#06(TIMA), BAC-MTT#10,14,28, OPS-section (DU5) and also BAC-MTT#23 at CMAC HQ in Phnom Penh.

f) Mine Risk Education and Reduction (MRE)

A part from landmine and UXO clearance as called land release, MRE approaches and methods are also combined into the expert teams and platoons to do MRE activities in the working target areas. These teams and platoons had conducted households and field visits and also concentration of MRE messages to individual and small group of audiences. In addition to this, CMAC also deployed 31 CBMRR District Focal Point (DFP) throughout the country to conduct mine risk education and reduction (MRE) activities directly to local and vulnerable people who are living in mine/UXO affected areas to understand as well the mine and UXO incident, threatening and stay away for individual and family safety, especially to avoid from any tampering on unknown items. This includes MRE and collecting requests from local communities and authorities and NGOs. However, the remaining CBMRR are still doing their tasks as well. Regarding this, at least 1,669 MRE sessions to **152,984** audiences, and visited **30,221** households and collected **272** community's requests, were carried out by all CBMRR and demining platoons and mobile teams during the reporting period. The below Table 8 provides an overview of details MRE outputs as of January 2020.



Table 9: Overview of outputs

Types of Progresses	Demining teams	CBMRR (DFP)	Total
Village visited	390	448	838
Course of MRE session	593	1,076	1,669
Household and field visited	10,038	20,183	30,221
Total audience group attended in MRE Course	36,602	116,382	152,984
➤ Men	12,206	48,677	60,883
➤ Women	13,218	52,952	66,170
➤ Children in school	7,636	10,081	17,717
➤ Out of school children	3,542	4,672	8,214
Total number of requests(M/UXO) and report to EOD	233	39	272
AP & Improvised mines	214	28	242
AT mines	5	4	9
UXO	981	102	1,083
MRE materials have been used for their activities			
- large T-shirt	-	-	-
- Small T-shirt			
- Note book	418	-	418
- Poster	170	38	208
- Flyer	16	64	80
- Leaflet	-	-	-
- Other	-	-	-

Productivity Analysis

1) Progress Comparison to the Set IWP 2020 (by Month):

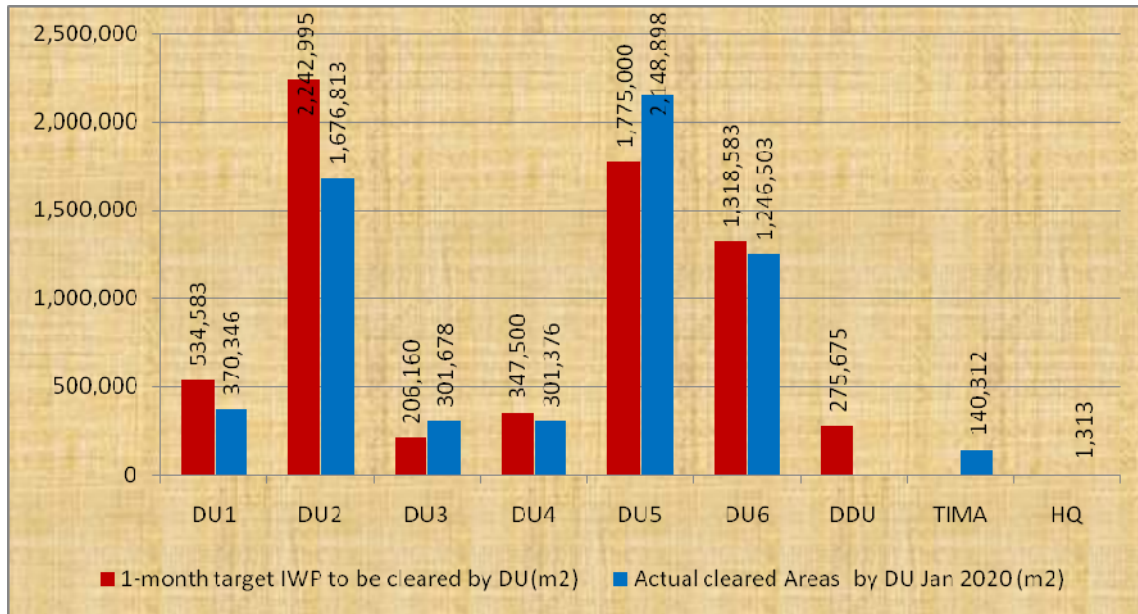
The table below is demonstrated the Set of Monthly Clearance Target in IWP 2020 by comparing to Progress Achievement accomplished in January 2020.



Table 10: Monthly Clearance Target VS Actual Progress Achievement January 2020

S/N	Demining Unit	Areas to be cleared by DU in January 2020 (m ²)	Actual Achievement in January 2020	
			Actual Progress by DU in January 2020 (m ²)	% in comparing to Monthly Work Plan by DU
1	DU1	534,583	370,346	69.28%
2	DU2	2,242,995	1,676,813	74.76%
3	DU3	206,160	301,678	146.33%
4	DU4	347,500	301,376	86.73%
5	DU5	1,775,000	2,148,898	121.06%
6	DU6	1,318,583	1,246,503	94.53%
7	DDU	275,675	-	0.00%
8	TIMA	-	140,312	-
9	HQ	-	1,313	-
	Total	6,700,496	6,187,239	92.34%

Chart4: Comparison of each DU target set in IWP 2020 VS Monthly Actual Achievement



2) Progress Comparison to 1-Month Planned target VS accumulative progress

the table 11 below shows each Demining Unit accumulative progress achieved against the planned target of each DU, starting from January to January 2020.

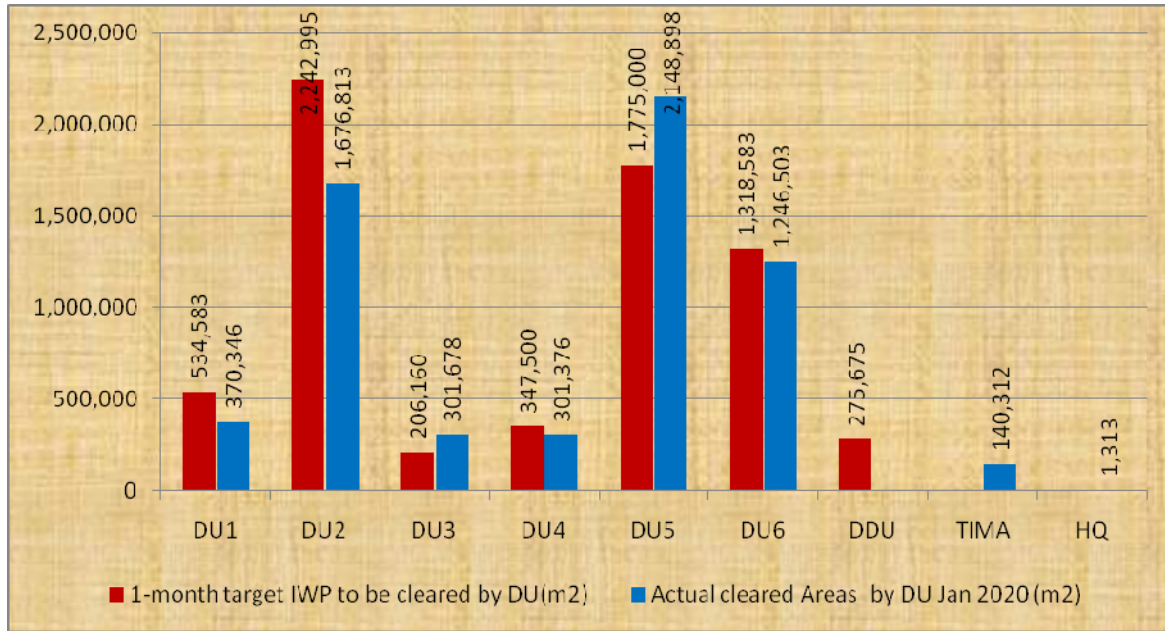
Table 11: 1- Month Clearance Target VS Accumulative Actual Progress Achievement January 2020

S/N	Demining Unit	1-Month Planned target by DU from January to January 2020 (m ²)	Actual Achievement in January 2020	
			Accumulative Actual Progress by DU from Jan-Jan 2020 (m ²)	% in comparing to 1-Month Work Plan by DU
1	DU1	534,583	370,346	69.28%



2	DU2	2,242,995	1,676,813	74.76%
3	DU3	206,160	301,678	146.33%
4	DU4	347,500	301,376	86.73%
5	DU5	1,775,000	2,148,898	121.06%
6	DU6	1,318,583	1,246,503	94.53%
7	DDU	275,675	-	0.00%
8	TIMA	-	140,312	-
9	HQ	-	1,313	-
	Total	6,700,496	6,187,239	92.34%

Chart5: Comparison of 1-Month Planned Target VS 1-Month Actual Achievement



3) Progress Achievement by Demining Units

The purpose of setting out the planned target to all Demining Units is for CMAC Internal Monitoring activity at CMAC Senior Level and also to reflect progress achievement against the annual work plan based on existing projects, project target, demining resources, clearances techniques and methodologies of CMAC. Regarding this, each Demining Unit was not set out the same standardized figures of Planning Target to perform the tasks. This due each Demining Unit consists of different projects, resources, timeframe and budgeting to implement the project at different terrain and locations. However, the table 11 below shows us each Demining Unit progress achieved against the planned target of each DU, starting from January to January 2020.

Table 12:

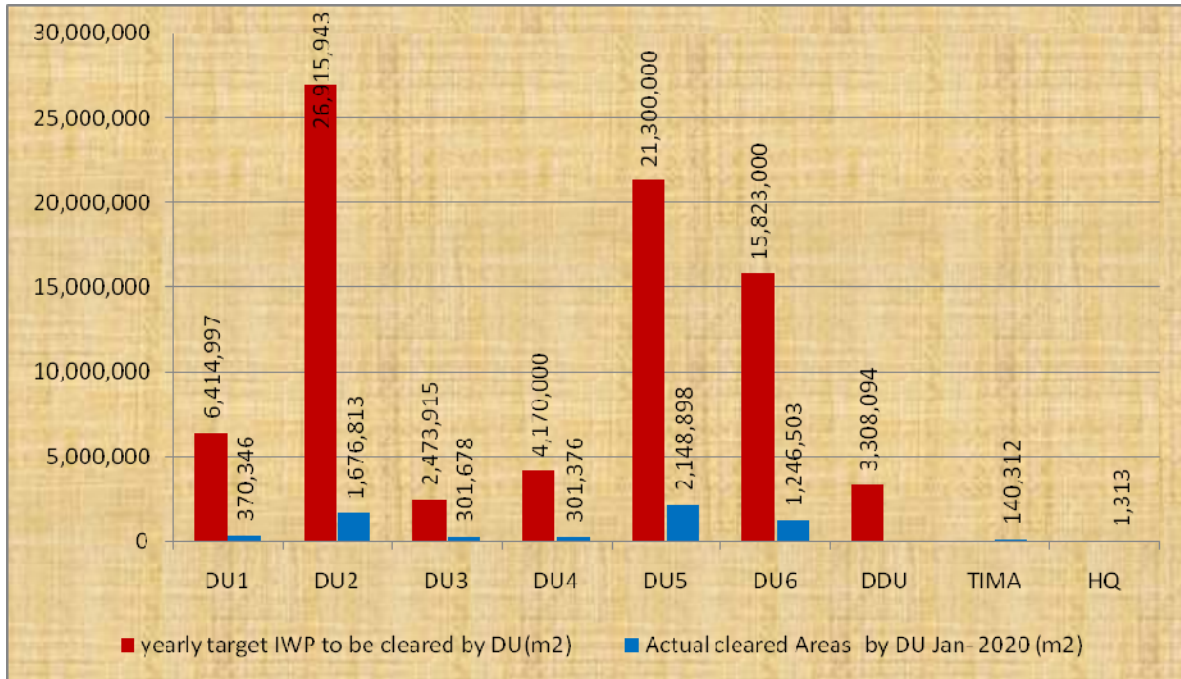
S/N	Demining Unit	Annual Work Plan Set, 2020		Actual Achievement, 2020	
		Areas to be cleared by DU in (m ²)	Annual (%) by DU	Accumulated progress by DU in Jan to Jan 2020 in (m ²)	% in comparing to Annual Work Plan by DU
1	DU1	6,414,997	8.0%	370,346	5.77%
2	DU2	26,915,943	33.5%	1,676,813	6.23%
3	DU3	2,473,915	3.1%	301,678	12.19%
4	DU4	4,170,000	5.2%	301,376	7.23%
5	DU5	21,300,000	26.5%	2,148,898	10.09%



មជ្ឈមណ្ឌលសកម្មភាពកំចាត់មីនកម្ពុជា
CAMBODIAN MINE ACTION CENTRE

6	DU6	15,823,000	19.7%	1,246,503	7.88%
7	DDU	3,308,094	4.1%	-	0.00%
8	TIMA	-	-	140,312	-
9	HQ	-	-	1,313	-
	Total	80,405,949	100 %	6,187,239	7.70%

Chart6: Comparison of each DU target set in IWP 2020 VS Actual 1-month Achievement (Jan-Jan 2020)



In January 2020, almost DUs achieved productivities against the monthly IWP target 2020 but it was still encountered issues as the following points:

No.	Demining Unit	Issues	Lost productivity (m ²)
1	DU2	4 MPL & 25 teams of CPF project got refresher training course at CMAC CDC from 2 nd -10 th January 2020. 3 (SLD#06, TSC#38 &39) of 25 teams did not produce productivity for whole month because they did not get enough operational equipment such as vehicle...etc	791,786
2	DU6& TIMA	16 mobile teams of CCL-02 project got refresher training course at TIMA from 2 nd -10 th January 2020. 2 TSC#40 &41) of 16 teams did not produce productivity for whole month because they did not get enough operational equipment such as vehicle...etc	474,643
3	DDU	CMAC has not got the Southwest irrigation project as expectation in January 2020.	275,675
		Total	1,542,104

If we add the lost productivity with actual one as table showing:

1-Month target	Actual productivity	Lost productivity	Total (m ²)	Compared to 1-month target (%)
6,700,496 m ²	6,187,239 m ²	1,542,104 m ²	7,729,343 m ²	115.35%



4) Progress Analysis by Project:

In addition to the progress by each DU and by demining tools, CMAC is still implementing and recording the progress by each project including the bilateral and earmark projects. During the reporting period, some projects have been continuing an implementation so called USA-NPA(USA-23) project of DU5 from 1 March 2019 to 28 February 2020 and CFR18 at DU1 and CFR19 at DU2 and DU3 start 01 January to 28 February 2020. Two projects have started an implementation so called Counter Part Fund (CPF) of DU2 from 01 January to 30 June 2020 and CCL02 project of DU6 from 01 January to 31 December 2020. However, the accumulative progress of all projects' achievement from the starts up to January 2020 are presenting as below table 11:

Table 13:Some Current Projects Executing up to January 2020

Project Name	Project Duration		Achievement			Project Target	Percentage
	Starting date	End date	Project progress up to last month in 2019 (m ²)	Project progress in Jan 2020 (m ²)	Project accumulated progress up to Jan 2020 (m ²)		
CAC (IMCCD)	16-Aug-19	15-Aug-20	115,920	39,200	155,120	200,000	77.56%
USA-NPA (USA22)	1-Mar-19	28-Feb-20	20,812,978	2,148,898	22,961,876	23,128,858	99.28%
CPF	1-Jan-20	30-Jun-20	-	1,384,386	1,384,386	11,880,000	11.65%
CCL-02	1-Jan-20	31-Dec-20	-	1,222,203	1,222,203	17,610,000	6.94%
CFR-BMC-18	1-Jan-19	28-Feb-20	4,007,851	198,170	4,206,021	2,263,015	185.86%
CFR-BTB-19	1-Jan-19	28-Feb-20	2,534,001	339,070	2,873,071	2,255,968	127.35%
CFR-PLN-20	1-Jan-19	28-Feb-20	2,270,232	125,371	2,395,603	1,724,027	138.95%

5) Operational Factor Analysis:

Regarding the above demonstrated progress, some relevant reasons for the productivity achieved during the reporting period (by focusing on January 2020) areas below:

1. **Fragment Contamination (FC)**, in total **123,593** found over a cleared area of **6,187,239 m²**, . This is **0.02** pieces per square meter. In percentage of technical terms, it is:
 - **92.15%** of land cleared had only light fragment contamination, in the operational areas of all DUs,
 - **7.85%** of land cleared had medium fragment contamination, in the operational areas at all DUs,

Note: * Fragment Contamination Factor (FC) Light=1(0.25 to 2 pieces per m²); medium=0.8 (2 to 3.50 pieces per m²); heavy=0.6 (3.50 to 4 and/ or over 4 pieces per m²)

2. **The presence of personnel at work, in total (16,880 person-days):**
 - 83.31% of total field personnel were present at work
 - 5.05% of total field personnel were assigned to attend CMAC training courses,
 - 0.72% were on mission,
 - 2.78% were on taking annual leave,
 - 0.88% were on sick leave,
 - 0.09% were on compensation leave
 - 0.35% were on maternity leave



- 0.25% were on leave without pay
- 0.00% were on leave without permission,
- 5.36% were shortfall field personnel,
- 0.09% were absent ,
- 0.24% were on obligation leave (to work out of the project temporarily...etc),
- 0.88% were absent for other reasons

3. Working Hours, in total (16,734 hours-days):

- 74.85% of total times were working hours
- 0.09% of total times were the raining period,
- 12.05% of total times were the travelling hours,
- 1.53% of total times were the maintenance periods of all BC and DM teams,
- 0.07% of total times were the repairing hours of all BC and DM teams,
- 0.00% of total times were waiting periods to get spare part for repairing some BC and DM teams,
- 0.00% of total times were the movement or replacing accommodation and transportation of goods; and BC or DM to the new location,
- 11.41% of total times were other reasons and or moved BC to assist other development.

4. The Mine Detectors, in total (11,872 mine detector-days):

- 56.24% of all mine detectors (MD) were actually used for the operations.
- 43.76% of mine detectors were not used due to deminers being absent or on leave, or detectors broken and being sent for repairs at the CMAC Central Workshop in Battambang province,

5. The mine detection dogs (MDD), in total (855 mine detection dog-days):

- 82.81% of all mine detection dogs (MDD/EDD) were actually used for operations.
- 11.35% of mine detection dogs were assigned to attend refresher training at the CMAC TC and
- 2.57% of mine detection dogs were sick and had to be treated at the CMAC Training Center.
- 3.27% of lack mine detection dogs.

6) Other Reasons Affecting Operational Progress:

a) Adherence to work plan

- During the reporting period as of January 2020, DU5 are still improving and urging the use of the Land Release Techniques, BLS, Process and methodology to eliminate the mistakes to their demining teams in terms of correction and prevention action of any misunderstanding and technical aspects so that to work as well, speed up operations and increasing progress to meet the planned target of CMAC Annual Work Plan as set out of the year 2020. However, some mistakes of technical aspects in doing BLS and Survey are still complicated issues at frontline level that needs experts from CMAC HQ to assist them for correction action in a timely.

b) Collaboration with others

- At least **30** minefields have been cleared in January handed over to the land owners and local communities for productive purposes at Banteay Meanchey, Battambang, Pailin, Siem Reap, Preah Vihear, Kampong Cham, Kratie and various provinces in collaboration with the local authorities, MAPU and CMAA in doing the QA/QC activities before releasing land safely.
- In addition to the above mentioned, during the reporting period all DUs have also cooperated with MAPU, local authorities, NGOs, stakeholders and other development partners in Banteay Meanchey, Battambang, Pailin, Siem Reap, Oddar Meanchey, Kampong Cham, Kratie and southeastern provinces of Cambodia to collect the mine/UXO clearance requests for their next clearance planning.



c) Challenges and actions taken

Demining Unit 1:

- A year by year, minefields are far away and it is very difficult to access during raining and season.
- Some operational material/equipment is broken and older.

Demining Unit 2:

- There was dense vegetation in some areas.
- Some areas were mineralized soils.
- There was a lot of fragmentation.
- Some operational material/equipment such as grass cutters and hand cutting tools are broken.

Demining Unit 3:

- There was dense vegetation in some areas.
- Some fields are slope areas.
- Some areas were mineralized soils.
- There was a lot of fragmentation.
- Some grass cutters and hand cutting tools could not sharpen anymore.

Demining Unit 4:

- There was dense vegetation.
- Some areas were mineralized soils.
- Some fields are the plateaus.

Demining Unit 5:

- Mobile teams moved often because access road to UXO fields was flood this month.
- There were dense vegetation, soil as solid as rock and mineralized soils in some areas.
- There were insects in some UXO fields to disturb operational clearance.
- The ERW requests from local authorities were not taken place on time due because of remote places.

Demining Unit 6:

- There was dense vegetation.

MDD/EDD Program at TIMA:

Safety and Occupational Health

- There were neither critical issues nor accidents at all DUs for this reporting period, especially the safety principle and staff healthy were strengthened and suffused to all mobile platoons and teams about SOP, sanitation, epidemic diseases and food prevention.
- All DUs, there were no critical issues concerning to a safety principle and staff healthy happened during the reporting period.

d) The Next Month Planning

- All DUs are going to continue strengthening and urge all demining teams to implement and follow on all existing SOPs to avoid mine/ERW incident during operations and as well as to provide them for safe manner and professionalism in demining.
- The department of Planning/Operation is going to urge all DUs to continue conducting the refresher courses on the gap point on technical issues and NTS/BLS found by QA/QC teams and make corrective and preventive action in a timely, and also to eliminate the re-occurrence of mistakes as much as possible.



- All DUs will continue to follow up and work closely to monitor and conduct QA/QC independently with their own resources and also to cooperate with CMAA QA/QC teams as much as possible, to eliminate all mistakes of all demining teams' performance as well and also to increase productivity to achieve their set target in 2020.
- All DUs will continue to maintain, follow up and implement the existing projects at their own DUs. Taking responsibility for coordinating and cooperating with CMAC Headquarters and the donors, to accomplish the project goals and objectives and the planned targets for 2020 as well.
- All DUs will continue to perform and apply the land release process and techniques to all demining teams in order to increase productivity and to achieve the set target in 2020.

6. Major Events:

On 07th January 2020, H.E Heng Ratana, Delegate of Royal Government of Cambodia as in charge of Director General of CMAC accompanied by some directors of department presided over the closing ceremony of refresher training course at CMAC CDC, Battambang province.

7. Suggestion/Conclusion:

- All demining activities and safety principle at ground levels are still continuing to respect and follow on them and existing SOPs so that everyone (deminers) gets safe during their performing the demining activities without any accident from explosion of landmine and UXO, in January 2020.
- The Department of Support/HR should strengthen performing its processes of resupply, repairs for operational equipment, vehicles, brush cutters, demining machines and materials smoothly for all DUs.
- Without the equipment support/resupply in time for all Demining teams, it will make decreasing of massive progresses of the performing will not meet the annual target plan of 2020.