

ទខ្ឈាទស្នាលសកម្មតាពកំចាត់ទីនកម្ពុខា Cambodian Mine Action Centre

CMAC Operational Achievement Report



February - 2021



CMAC Monthly Operational Achievement Report Period: 01 – 28 February 2021





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eneral Situation

In February 2021, all CMAC Demining Components and Demining Units were continually assigned to have the operational clearance mine/UXO fields as planned target has been set in 2021. 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 10 Explosive Ordnance Disposal teams (EOD) at DU1, DU2, DU3, DU4, DU6 and TIMA and as well as the 4 Battle Area Clearance–Multi Task Teams (BAC-MTT) 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 February 2021 is represented as the following:

2. Deployment Tools (Asset)

In February 2021, 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 carrying on 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: February 2021

								A	ctual	Den	ninin	g As	sets ((Tool	ls)							
Demining Units	PMD-17staff	PMB-16staff	BAC-S-7staff	BAC-S-5staff	T'SC-7staff	CTS-7staff	PBC-15staff	BCT-9staff	BC-D-3staff	PDM-16staff	DMT-2staff	CDM—12staff	EOD-5staff	DIT-5staff	BAC-MT⁺T	SLD-10staff(2dogs)	EDD-10staff(4dogs)	TSD-5staff(4dog)	E.SD-5staff(4dogs)	MDR-15staff	CBM/CBU-DFP	CBM/CBU-PC
DU#1(BMC)	-	1	-	-	2	-	-	2	1	-	1	-	1	-	-	1	-	-	-	1	4	1
DU#2(BTB, PST)	4	-	-	-	10	-	2	2	-	8	-	-	3	-	-	2	3	-	-	-	11	2
DU#3(PLN)	2	-	-	-	11	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	2	1
DU#4 (SRP & Kg. Thom, PVH)	-	-	-	-	10	-	-	3	-	-	1	1	1	-	-	-	-	-	-	1	3	1
DU#5 (Eastern provinces)	-	4	5	4	-	3	-	-	1	-	-	-	-	-	4	-	-	-	-	-	3	1
DU#6(PVH, STR & OMC)	-	-	-	-	10	-	1	4	-	-	-	-	1	-	-	-	-	1	-	1	5	1
Development Demining Unit (DDU)	-	-	-	-	5	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CMAC Technical Institute of Mine Action (TIMA)	-	-	-	-	1	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-
CMAC HQ		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-



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(Phnom Penh)																						
National Dog Center (NDC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Community Development. Center (CDC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	6	4	5	4	49	3	3	14	3	8	2	1	10	2	4	3	3	1	1	2	27	7

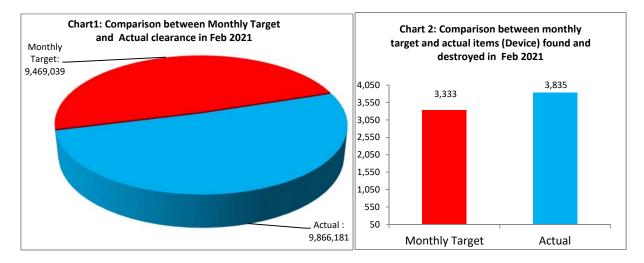
Note:

Movement

3. Summary of Progress

However, as mentioned on the results of February 2021; a total of **9,866,181 m²** of land has been released throughout the country. This includes **5,487,506 m²** of minefield areas, and **3,551,292 m²** of UXO field areas and **827,383 m²** of areas cleared without sketches for safety principles, which is **104.19%** compared to the monthly target of 9,469,039 m² in 2020. But if this is compared to the same period of February 2020 (as of 7,621,217 m²), it is **29.46%** more than the progress of February 2020. In total from January to February 2021, all teams were able to release **17,965,706 m²**, while the total accumulative progress for the same period in 2020 is **13,794,526 m²** that it is **30.24%** more than the progress of 2-month in 2020. The details of CMAC accumulated operational summary progress report from 1992 up-to February 2021 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 February 2021.

Anyway, if comparing the progress of January to February 2021 (as of 8,099,525 m²), it is **21.81%** more than progress of January 2021.



A part of the above mentioned; at least **811** AP mine, 10 AT and **3,014** ERW were found and destroyed safely. If comparing these items (mines and Explosive Remnants of War) found and destroyed in February 2021 (as of **3,835** items) to the monthly target in 2021 (as of **3,333** items), it **is 115.06**%. The Chart 2 above is represented the device found and destroyed by comparing to monthly target of mine/UXO in February 2021.

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:

Tal	ble 2:	Overview of the Comm	<u></u>	
S/N	Project's name	Jan-21	Feb-21	Remarks
1	DU1_CFR23	2TSC,2BC	2TSC,2BC	This project starts from 01 Jan- 31 Dec 2021.
2	DU1-SVC (Infrastructure),	1Buldozer, 1 Compact roller, 1 dump truck, 1 Excavator	1Buldozer, 1 Compact roller, 1 dump truck, 1 Excavator	1)-This project is just renewed for a new agreement from 01 Apr 2020 to 31 Mar 2021.
3	DU1-CMA21	1PC&4CBM &1EOD	1PC&4CBM &1EOD	
4	DU2_CFR24	2TSC,2BC	2TSC,2BC	1)-This project starts from 01 Jan-31 Dec 2021
5	DU2-CAC (IMCC)	1TSC	1TSC	This project is just renewed for a new agreement from 16 Aug 2020 to 15 Aug 2021.
6	DU2-PIMV	4PMD, 8PDM, 7TSC, 2PBC, 2SLD, 3EOD, 7PC&CBM, project staff	4PMD, 8PDM, 7TSC, 2PBC, 2SLD, 3EOD, 7PC&CBM, project staff	This project starts from 01 Jul 2020 to 31 Mar 2022
7	DU2-CMA-21	5 CBM	5 CBM	This project starts on 01 Jul 2020.
8	DU2-MAG	3 SLD	3 SLD	 1)- This project is renewed from 01 March 2021 to 30 Apr 2021. 2)-SLD#05 has been hired by MAG for a year (01 Jun 2019 to 31 July 2021)
9	DU3-PIMV	2PMD, 8TSC, 1SLD, 1EOD, 1PC&2CBM	2PMD, 8TSC, 1SLD, 1EOD, 1PC&2CBM	This project starts from 01 Jul 2020 to 31 Mar 2022
10	DU3-CFR25	1BCT and 3 TSC	1BCT and 3 TSC	This project starts 01 Jan t0 31 Dec 2021.
11	DU4-MDR-APOPO	1BC, 1TSC,1MDR	1BC, 1TSC,1MDR	1)-This project starts on 01 Jan to 31 Dec 2021 (MRD#01, TSC#22 , BC#25).
12	DU4, CMD_JMAS	1CDM, 1BC, 1DM, 1EOD, CBURR	1CDM, 1BC, 1DM, 1EOD, CBURR	This project starts on 01 March 2020 to 28 February 2021.
13	DU4-CCL3	6TSC, 1BCT, 3PC&CBM& office staff	6TSC, 1BCT, 3PC&CBM& office staff	 1)-This project starts from 01 Jan to n31 Dec 2020. 2)-ERWI#02 supported by DU6, its workbase at DU4.
14	DU4-Apsara	3TSC,	3TSC,	This project starts on 1 February 2021 until new notice.
15	DU5& HQ –USA24	9BAC-S, 4MPB, 4BAC-MTT, 2EDD, 1BC	9BAC-S, 4MPB, 4BAC- MTT, 2EDD, 1BC	This project starts on 01 January 2020 to 28 February 2021.
16	DU5-NPA23	3CTS	3CTS	This project starts on 01 November 2020
17	DU6_CCL3	9TSC, 3BCT, 1PBC, 6CBM & office staff	9TSC, 3BCT, 1PBC, 6CBM & office staff	This project starts from 01 Jan to 31 Dec 2020.
18	DU6-APOPO	1MDR, 1TSC, 1BC, 1TSD	1MDR, 1TSC, 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 2021 (TSC#05, BCT#22&MDR#02).

Overview of the Committed Assets by Project

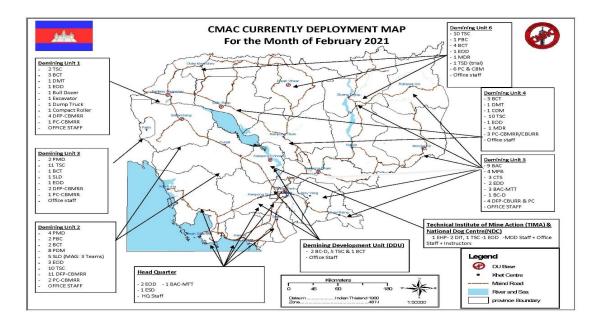


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S/N	Project's name	Jan-21	Feb-21	Remarks
19	DDU-CMA21	5TSC, 1BCT & 2 BC-D	5TSC, 1BCT & 2 BC-D	-This project starts on 1 January 2021.
20	HQ_CCL-03	2EOD, 1ESD	2EOD, 1ESD	This project starts on 01 Jan-31 Dec 2021.
21	TIMA-CCL3	1EOD, 1TSC, 2DIT& office staff & instructor	1EOD, 1TSC, 2DIT& office staff & instructor	This project starts from 01 Jan to 31 Dec 2021.
22	TC- Golden West foundation	1Explosive Harvesting team (8persons	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.
23	Community Development Center (CDC)	2BC	2BC	

The below figure is the CMAC deployment map as of February 2021 *Figure:1*



a. Teams Deployed Vs Staff of the month of February 2021

Table 3:

Demining	No. of	No. of	Total	Actua	al Staff		
Tools/Assets	teams	staff per team	staff in Jan 2021	Male	Female	Different	Remarks
PMD	6	17	102	67	12	-23	
PBC	3	15	45	30	9	-6	
BCT	14	9	126	95	2	-29	
BC-D	3	3	6	6			
PDM	8	16	128	87	8	-33	
DMT	2	2	4	2		-2	
CDM	1	12	12	12			
TSC	49	7	343	265	3	-75	
BAC-S	5	7	35	26	9		



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Demining	No. of	No. of	Total	Actu	al Staff		
Tools/Assets	teams	staff per team	staff in Jan 2021	Male	Female	Different	Remarks
BAC-S	4	5	20	20			
CTS	3	7	21	16	5		
MPB	4	16	64	62	2		
EOD	10	5	50	39		-11	
BAC-MTT	4	5	20	20			
DIT	2	5	10	8		-2	
SLD	6	10	60	45	7	-8	
EDD	2	10	12	11	1		
TSD	1	5	5	5		1	
ESD	1	5	5	4	1		
MDR	2	15	12	12			
CBMRR-DFP	27	1	27	21	5	-1	
CBMRR-PC	7	1	7	6	1		
Total	164		1,114	860	65	-189	

Note:

- Base on the different figure between teams deployed and staff, it shows that at least **-1.15%** was lost during the reporting period.

b. Planned and actual operational team-days of the month of February 2021

Table 4

Demining	No. of	Operatio da		Different	Remarks
Tools/Assets	teams	Plan	Actual		
PMD	6	120	120		
PBC	3	60	60		
BCT	14	260	251	-9	
BC-D	3	60	60		
PDM	8	160	160		
DMT	2	20	0	-20	
CDM	1	20	12	-8	
TSC	49	980	973	-7	
BAC-S	5	100	100		
BAC-S	4	80	80		
CTS	3	60	60		
MPB	4	80	80		
EOD	10	200	192	-8	
BAC-MTT	4	80	80		
DIT	2	40	40		
SLD	6	60	45	-15	
EDD	2	40	30	-10	
TSD	1	20	20		
ESD	1	20	20		
MDR	2	40	40		
CBMRR-DFP	27	540	540		
CBMRR-PC	7	140	140		
Total	164	3,180	3,103	-77	

Note:

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In average, each mobile platoon and mobile team lost at least -0.47% 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 **80** 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 February 2021

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, socioeconomic 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 February 2021 provided at least **2,250** families as direct beneficiaries and **9,659** families as indirect beneficiaries. The Table 5 below is showing us the number of minefields completed and beneficiaries by each DU:

	No. of			Beneficiaries	3	No. of	No. of	No. M/Fs	
DUs	M/Fs	Area (qsm)		(Family)		M/Fs On	M/Fs	handed	
	released		Direct	Indirect	Student	going	suspended	over	
DU1	10	411,871	1,238	1,217	-	3	-	10	
DU2	25	1,972,283	54	1,848	-	21	1	25	
DU3	9	738,126	11	6,313	-	20	-	9	
DU4	13	1,234,183	35	149	-	14	-	13	
DU5	14	3,073,198	883	-	-	22	-	14	
DU6	9	1,114,541	29	132	-	23	-	9	
TIMA	-	-	-	-	-	2	-	-	
Total	80	8,544,202	2,250	9,659	-	105	1	80	

Table5:

c) Land Released Productivities as of February 2021

The overall progress achievement for the month of February 2021 was 9,866,181 m², which was 1,479,791 m² was released as C2, and 7,559,007 m² was released as C3 and 827,383 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 2,124 items of Mine/ERW (569 AP, 4 AT and 1,551 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 February 2021.

Table 6: Summary of productivity achieved:

Land Released Categories	Area (m ²)	AP Mine destroyed	AT Mine destroyed	ERW destroyed	IP Mine destroyed	Small Arm(kg)	Fragment
C1 area released	-	-	-	-	-	-	-
C2 area released	1,479,791	33	-	144	-	-	19,162
C3 area released	7,559,007	536	4	1,396	-	-	133,270
Other Clearance	827,383	-	-	11	-	-	7,673
Total	9,866,181	569	4	1,551			160,105

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

d) BLS operational progress report

In February 2021, TSO of DU4 conducted the Baseline Survey services at Seam Reap province. Regarding this activity the following results:

Table 7:

Description	DU4	Remarks
Number of villages visited	1	
Number of new BLS polygons discovered	8	
Size of BLS polygons (m ²)	1,187,717	

e) EOD Team Operational Achievement

In addition to the deployment of demining platoons and mobile teams, during the reporting period CMAC deployed at least 10 EOD teams, and other demining tools such as, BAC-MTT 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 **321** requests (EOD calls) in February 2021, it is **76.98%** 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	February 2021	Accumulative Progress (Jan-Feb 2021)
Areas Cleared (Spot check) in m ²	21,002	37,235
# EOD tasks conducted (Responded)	321	613
# APM destroyed	242	452



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# ATM destroyed	6	17
# ERW destroyed	1,463	2,767
#Improvised mines destroyed	-	10
# Small Arms Ammunition (kg)	26	41
# Fragment (pieces)	7,473	8,653

f) Mine Risk Education and Reduction (MRE)

Mine Risk Education still plays vital role in reducing and removing threats provoked by mines and ERW. 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 **1,400** MRE sessions to **90,076** audiences, and visited **47,807** households and collected **274** 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 February 2021.



Types of Progresses	Demining teams	CBMRR (DFP)	Total
Village visited	405	399	804
Course of MRE session	658	742	1,400
Household and field visited	13,694	34,113	47,807
Total audience group attended in MRE Course	36,883	53,193	90,076
➢ Men	10,712	20,256	30,968
➢ Women	11,042	22,189	33,231
Children in school	12,860	8,133	20,993
Out of school children	2,269	2,615	4,884
Total number of requests(M/UXO) and report to EOD	234	40	274
 AP & Improvised mines 	45	30	75
- AT mines	1	2	3
- UXO	843	195	1,038
MRE materials have been used for their activities			
- large T-shirt	-	-	-
- Small T-shirt	-	-	-
- Note book	320	-	320
- Poster	378	15	393
- Flyer	110	10	120
- Leaflet	-	-	-
- Other	5	-	5

Table 9: Overview of outputs

Productivity Analysis

1) Progress Comparison to the Set IWP 2021 (by Month):

The table below is demonstrated the Set of Monthly Clearance Target in IWP 2020 by comparing to Progress Achievement accomplished in February 2021.

Table 10: Monthly Clearance Target VS Actual Progress Achievement February 2021

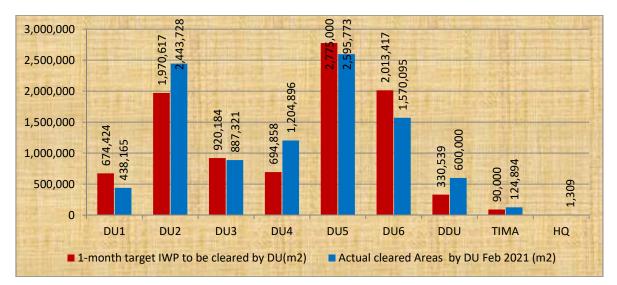


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	Demining Unit	Areas to be cleared by	Actual Achievement in February 2021		
S/N		DU in February 2021	Actual Progress by DU	% in comparing to	
5/1	Demining Onit	(m^2)	in Feb 2021 (m ²)	Monthly Work Plan	
				by DU	
1	DU1	674,424	438,165	64.97%	
2	DU2	1,970,617	2,443,728	124.01%	
3	DU3	920,184	887,321	96.43%	
4	DU4	694,858	1,204,896	173.40%	
5	DU5	2,775,000	2,595,773	93.54%	
6	DU6	2,013,417	1,570,095	77.98%	
7	DDU	330,539	600,000	181.52%	
8	TIMA	90,000	124,894	138.77%	
9	HQ	-	1,309	-	
	Total	9,469,039	9,866,181	104.19%	

Chart4: Comparison of each DU target set in IWP 2021 VS Monthly Actual Achievement



2) Progress Comparison to 2-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 February 2021.

Table 11: 2- Month Clearance	Target VS Accumulat	tive Actual Progress Achievement	Jan-Feb 2021
	0	0	

		2-Month Planned target	Actual Achievement from Jan-Feb 2021		
S/N	Demining Unit	by DU from Jan- Feb	Accumulative Actual	% in comparing to 2-	
5/1	Demining Offic	2021 (m ²)	Progress by DU from	Month Work Plan by	
			Jan-Feb 2021(m ²)	DU	
1	DU1	1,348,848	853,591	63.28%	
2	DU2	3,941,234	4,508,453	114.39%	
3	DU3	1,840,369	1,648,406	89.57%	
4	DU4	1,389,716	2,082,012	149.82%	
5	DU5	5,550,000	4,819,797	86.84%	
6	DU6	4,026,834	2,659,829	66.05%	
7	DDU	661,077	1,150,000	173.96%	
8	TIMA	180,000	240,249	133.47%	
9	HQ		3,369	_	
	Total	18,938,079	17,965,706	94.87%	



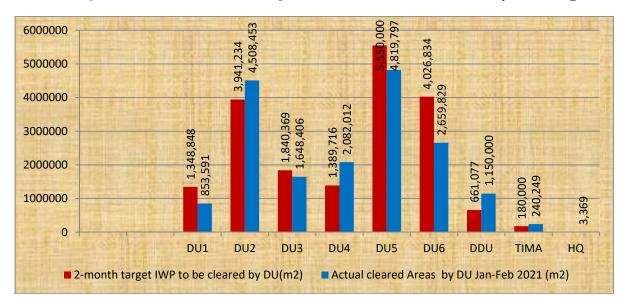


Chart5: Comparison of 2-Month Planned Target VS 2-Month Actual Achievement by Demining Units

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 February 2021. **Table 11:**

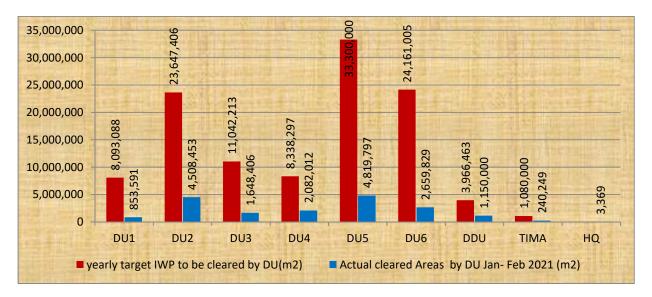
S/	Demining	Annual Work	Plan Set, 2021	t, 2021 Actual Achievement from Jan-Feb 2021		
Ν	Unit	Areas to be	Annual (%) by	Accumulated	% in comparing to Annual	
		cleared by DU	DU	progress by DU in	Work Plan by DU	
		in (m ²)		Jan to Feb 2021 in		
				(m^2)		
1	DU1	8,093,088	7.12%	853,591	10.55%	
2	DU2	23,647,406	20.81%	4,508,453	19.07%	
3	DU3	11,042,213	9.72%	1,648,406	14.93%	
4	DU4	8,338,297	7.34%	2,082,012	24.97%	
5	DU5	33,300,000	29.31%	4,819,797	14.47%	
6	DU6	24,161,005	21.26%	2,659,829	11.01%	
7	DDU	3,966,463	3.49%	1,150,000	28.99%	
8	TIMA	1,080,000	0.95%	240,249	22.25%	
9	HQ	-	-	3,369	-	
	Total	113,628,472	100%	17,965,706	15.81%	

Chart6: Comparison of each DU target set in IWP 2021 VS Actual 2-month Achievement (Jan-Feb 2021)



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CAMBODIAN MINE ACTION CENTRE



In February 2021, most DUs achieved productivities against the monthly IWP target 2021 but it was still encountered issues as the following points:

No.	Demining	Issues	Lost productivity (m ²)
	Unit		
1	DU1	DU1 didn't get PCD-JMAC project in February	191,667
		2021 as planned (Yearly Planned Target:	
		2,300,000m ²).	
2	DU1&DU2	DU1&2 didn't get CFR-Top UP in February 2021	362,500
		as planned (Yearly Planned Target: 4,350,000m ²).	
3	DU5	Some teams of DU5_USA-NPA project haven't	1,000,000
		been reformed yet for February 2021.	
4	DU6	DU6 didn't get CMD-JMAC project and some	640,000
		teams haven't been reformed yet for February 2021	
		as planned (Yearly Planned Target: 7,680,000m ²).	
		These teams are still working at DU4.	
		Total	2,385,833

a. Projects and refreshing course issues:

b. 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 (%)
9,469,039 m ²	9,866,181 m ²	2,385,833 m ²	12,252,014m ²	129.39%

3) 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 being continuing an implementation so called USA-NPA(USA-24) project of DU5 from 1 March 2020 to 28 February 2021 and two projects have started an implementation so called Integrated Mine Clearance Landmine Victim Assistance (IMV) of DU2 from 01 February 2021 to 31 March 2022, CCL03 project of DU4, DU6, TIMA and some teams in CMAC from 01 January to 31 February 2021 and Clearing For Results so called (CFR) from 01 Jan to 31 December 2021 for DU1, DU2 &DU3. However, the accumulative progress of all projects' achievement from the starts up to February 2021 are presenting as below table 13:

 Table 13: Some Current Projects Executing up to February 2021



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CAMBODIAN MINE ACTION CENTRE

	Project Duration		Achievement			rget	age
Project Name	Starting date	End date	Project progress up to last month in 2021 (m ²)	Project progress in Feb. 2021 (m²)	Project accumulated progress up to Feb 2021 (m ²)	Project Target	Percentage
CAC (IMCCD)	16-Aug-20	15-Aug-21	146,444	20,545	166,989	200,000	83.49%
USA-NPA (USA24)	1-Mar-20	28-Feb-21	19,017,528	2,595,773	21,613,301	21,300,000	101.47%
PIMV	1-Jul-20	31-Mar-22	15,717,529	2,663,348	18,380,877	44,940,000	40.90%
CCL-03	1-Jan-21	31-Dec-21	1,459,521	2,134,616	3,594,137	15,960,000	22.52%
DU1-CFR23	1-Jan-21	31-Dec-21	355,090	331,415	686,505	3,618,088	18.97%
DU2-CFR24	1-Jan-21	31-Dec-21	267,470	347,031	614,501	3,512,406	17.50%
DU3-CFR25	1-Jan-21	31-Dec-21	290,181	300,125	590,306	3,122,213	18.91%
ΑΡΟΡΟ	1-Jan-21	31-Dec-21	324,829	418,504	743,333	8,711,061	8.53%
APSARA	1-Jan-21	30-Jun-21	161,435	274,717	436,152	1,228,241	35.51%
Total			37,740,027	9,086,074	46,826,101	102,592,009	45.64%

4) Operational Factor Analysis:

Regarding the above demonstrated progress, some relevant reasons for the productivity achieved during the reporting period (by focusing on February 2021) areas below:

- 1. Fragment Contamination (FC), in total 160,105 pieces found over a cleared area of 9,866,181m². This is 0.02 pieces per square meter. In percentage of technical terms, it is:
 - > 93.65% of land cleared had light fragment contamination, in the operational areas of all DUs,
 - ➢ 6.35% 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 (17,480 person-days):
 - ➢ 80.58% of total field personnel were present at work
 - ▶ 5.74% of total field personnel were assigned to attend CMAC training courses,
 - \triangleright 0.25% were on mission,
 - ▶ 1.96% were on taking annual leave,
 - \triangleright 0.75% were on sick leave,
 - \triangleright 0.21% were on compensation leave
 - \triangleright 0.20% were on maternity leave
 - \triangleright 0.11% were on leave without pay
 - \triangleright 0.00% were on leave without permission,
 - ▶ 9.08% were shortfall field personnel,
 - \triangleright 0.17% were absent,
 - > 0.11% were on obligation leave (to work out of the project temporarily...etc),
 - \triangleright 0.83% were absent for other reasons

3. Working Hours, in total (17,885 hours-days):

- ➢ 79.28% of total times were working hours
- \triangleright 0.23% of total times were the raining period,
- \blacktriangleright 12.37% of total times were the travelling hours,



- > 1.23% of total times were the maintenance periods of all BC and DM teams,
- > 0.02% 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,
- ▶ 6.88% of total times were other reasons and or moved BC to assist other development.

4. The Mine Detectors, in total (14,103 mine detector-days):

- \blacktriangleright 62.30% of all mine detectors (MD) were actually used for the operations.
- 37.70% 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 (680 mine detection dog-days):

- > 81.03% of all mine detection dogs (MDD/EDD) were actually used for operations.
- > 10.88% of mine detection dogs were assigned to attend refresher training at the CMAC TC and
- ▶ 5.88% of mine detection dogs were sick and had to be treated at the CMAC Training Center.
- \triangleright 2.21% of lack mine detection dogs.

5) Other Reasons Affecting Operational Progress:

a) Adherence to work plan

During the reporting period as of February 2021, 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 2021. 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 80 minefields have been cleared in February 2021 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, Preah Vihear, 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:

- Weather was hot, some time.
- Some operational material/equipment is broken and older.

Demining Unit 2:

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



Demining Unit 3:

- Weather was hot, some time.
- There was dense vegetation in some areas.
- There was a lot of fragmentation.
- Some grass cutters and hand cutting tools could not sharpen anymore.

Demining Unit 4:

- Weather was hot, some time.
- There was dense vegetation.
- Some areas were mineralized soils.
- Some fields are the plateaus.

Demining Unit 5:

- Weather was hot, some time.
- 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:

- Weather was hot.
- There was dense vegetation.

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 always take measure to prevent the spread of COVID-19:
 - Clean hands often with soap and water or an alcohol-based hand rub.
 - Checks the temperature before operations.
 - Wear facial mask.
 - Maintain the social distancing guidelines.
 - Work at home for some office staff.
 - Cover nose and mouth with bent elbow or a tissue/scarf when coughing or sneeze.

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.
- 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 2021.
- 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 2021.

6. Major Events:

• On 22nd February 2021, H.E Khem Sophoan, Designed president of CMAC governing council accompanied by some officials visited DU6 and reminisce the DU6 key and field staff at Choam Ksant district Preah Vihear 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 October 2021.
- > 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 \geq massive progresses of the performing will not meet the annual target plan of 2021.

Checked by:

Rath Pottana Chhin Bunran **Tep Sakoeun** Chief of statistics Senior Director of Planning & Permanent Deputy Director of Operations Dept. Planning & Operations 24 March 2021 24 March 2020 24 March 2021

Attachment:

Verified by:

- Annex A: CMAC Operational Progress Summary from 1992 up to February 2021
- Annex B: Monthly Progress Report by DU for February 2021
- Annex C: List of Completed Minefields and On-going as of February 2021 (all DUs)
- Summary of Baseline Survey Report for February 2021. Annex D:
- Annex E: Summary of CBMRR Report for February 2021.

Prepared by: