



មជ្ឈមណ្ឌលសកម្មភាពកំចាត់មីនកម្ពុជា
Cambodian Mine Action Centre

CMAC

Operational Achievement Report



October - 2020



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

08/20



1.



General Situation

In October 2020, there was heavy rain caused flood at Banteay Meanchey, Battambang, Pailin, and Pursath provinces so that it affected CMAC operational some areas. All CMAC Demining Components and Demining Units were assigned to work for 19 working with 4 day-off, 1-day for Memorial King’s father ceremony (15 October 2020), 1-day for Coronation ceremony (29 October 2020) and water festival (30-31 October 2020). 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 8 Intervention Teams, called Explosive Remnants of War Intervention (ERW) at DU1, DU2, 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 October 2020 is represented as the following:

2. Deployment Tools (Asset)

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: October 2020

Demining Tool	Actual Demining Assets (Tools)																								
	MP (27staff)	MP (17staff)	MPP(16staff)	BAC-S(5staff)	BAC-S(7staff)	TSC(5staff)	TSC(7staff)	BL-S(5staff)	SLD(2dogs)	SLD(4dogs)	E.DD(2dogs)	ESD(4dogs)	TSD(4dogs)	MDR(4rats)	ERWI	EOD	BAC-MTT	DIT	BC-2staff	BC-9staff	MPC-15staff	CDM	DM-3staff	MPD-15staff	
DU#1(BMC)	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	1	4	-	-	1	-	-
DU#2(BTB, PST)	-	4	-	-	-	9	8	-	2	3	-	-	-	-	3	-	-	-	3	4	-	-	-	7	1
DU#3(PLN)	-	2	-	-	-	7	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	1	-
DU#4 (SRP & Kg. Thom, PVH)	1	-	-	-	-	-	1	-	1	-	-	-	-	1	2	-	-	-	1	1	-	1	1	-	-
DU#5 (Eastern provinces)	-	-	4	4	5	-	-	-	-	-	2	-	-	-	-	-	4	-	1	-	-	-	-	-	-
DU#6 (PVH, STR& OMC)	-	-	-	-	-	10	-	2	-	-	-	-	1	1	1	1	-	-	1	1	1	-	-	-	-
Development Demining Unit	-	-	-	-	-	3	2	-	-	-	-	-	-	-	-	1	-	2	5	1	-	-	-	-	-



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A part of the above mentioned; at least **712** AP mine, 3 AT and **3,065** ERW were found and destroyed safely. If comparing these items (mines and Explosive Remnants of War) found and destroyed in October 2020 (as of **3,780** items) to the monthly target in 2020 (as of 3,333 items), it is **113.41%**. The Chart 2 above is represented the device found and destroyed by comparing to monthly target of mine/UXO in October 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	July-20	Aug-20	Sep-20	Oct-20	Remarks
1	DU1_CFR21	5TSC,2BC	5TSC,2BC	8TSC,4BC	8TSC,4BC	1)-This project starts from 01 Jun-31 Dec 2020. 2)- 2 TSC(13&24) of ex-DU1_CTB and BC#02 of ex-DU6_CCL-02 have worked for CRF-Top UP project from 01 Jul -31 Dec 2020.
2	DU1,-PCD-JMAS	1MP,2BC, 1DM, 1ERW	1MP,2BC, 1DM, 1ERW	1MP,2BC, 1DM, 1ERW		1)-This project starts from 08 Oct 2019 to 07 Oct 2020. 2)- MPL.#109, ERW#16 and BC#09 moved to work at DU4&6 . 3)- DM#10&BC#03 standby at DU1 but its staff moved to work at DU2.
3	DU1-SVC (Infrastructure),	1Buldozer, 1 Compact roller, 1 dump truck, 1 Excavator	1Buldozer, 1 Compact roller, 1 dump truck, 1 Excavator	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 April 2019 to 31 October 2020.
4	DU2_CFR22	5TSC,2BC	5TSC,2BC	8TSC,4BC	8TSC,4BC	1)-This project starts from 08 Oct 2019 to 07 Oct 2020. 2)- 2 TSC(34&42) of ex-DDU_EDC-08 & DU2-CPF respectively and BC#08 of ex-DU6_CCL-02 have worked for CRF-Top UP project from 01 Jul -31 Dec 2020.
5	DU2-CAC (IMCC)	1TSC	1TSC	1TSC	1TSC	This project is just renewed for a new agreement from 16 August 2019 to 15 October 2020.
6	DU2-PIMV	4MP, 7DM, 8TSC, 2SLD, 3ERW, 1BC, 7PC&CBM, project staff	4MP, 7DM, 8TSC, 2SLD, 3ERW, 1BC, 7PC&CBM, project staff	4MP, 7DM, 8TSC, 2SLD, 3ERW, 7PC&CBM, project staff	4MP, 7DM, 8TSC, 2SLD, 3ERW, 7PC&CBM, project staff	This project starts from 01 Jul 2020 to 31 Mar 2022
7	DU2-CMA-20	5 CBM	5 CBM	5 CBM	5 CBM	This project starts on 01 Jul 2020.
8	DU2-MAG	3 SLD	3 SLD	3 SLD	3 SLD	1)- This project is renewed from 01 October 2020 to 30 Apr 2021. 2)-SLD#05 has been hired by MAG for a year (01 Jun 2019 to 31 July 2021)



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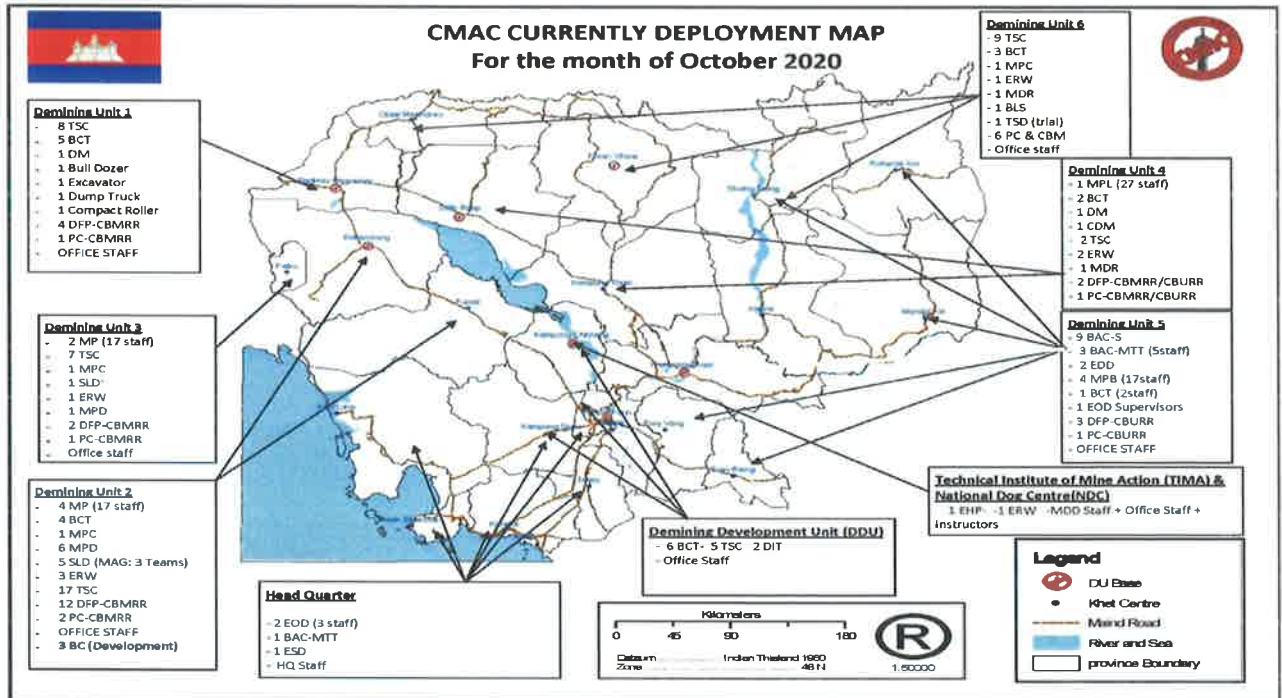
S/N	Project's name	July-20	Aug-20	Sep-20	Oct-20	Remarks
9	DU3-PIMV	2MP,7TSC,1DM,1BC, 1SLD, 1ERW, 3PC&CBM	2MP,7TSC,1DM, 1BC, 1SLD, 1ERW, 3PC&CBM	2MP,7TSC,1DM, 1BC, 1SLD, 1ERW, 3PC&CBM	2MP,7TSC,1DM, 1BC, 1SLD, 1ERW, 3PC&CBM	This project starts from 01 Jul 2020 to 31 Mar 2022
10	DU4-MDR-APOPO	1BC, 1TSC,1MDR	1BC, 1TSC,1MDR	1BC, 1TSC,1MDR	1BC, 1TSC,1MDR	1)-This project starts on 01 Jan to 31 Dec 2020 (MRD#01, TSC#22 , BC#25).
11	DU4, CMD_JMAS	1CDM, 1BC, 1DM, 1ERW, CBURR	1CDM, 1BC, 1DM, 1ERW, CBURR	1CDM, 1BC, 1DM, 1ERW, CBURR	1CDM, 1BC, 1DM, 1ERW, CBURR	This project starts on 01 March 2019 to 29 October 2020.
12	DU4-CCL2	2PC&CBM& 18 office staff	2PC&CBM& 18 office staff	2PC&CBM& 18 office staff	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.
13	DU4-Apsara	-	-	-	1MPL&1ERW	This project starts on 15 October 2020 for 6-month.
14	DU5& HQ – USA24	9BAC-S, 4BAC-L, 4BAC-MTT, 2EDD, 1BC	9BAC-S, 4BAC-L, 4BAC-MTT, 2EDD, 1BC	9BAC-S, 4BAC-L, 4BAC-MTT, 2EDD, 1BC	9BAC-S, 4BAC-L, 4BAC-MTT, 2EDD, 1BC	This project starts on 01 October 2020 to 28 February 2021.
15	DU6_CCL2	1ERW, 8TSC, 2BCT, 3BLS, 6CBM& 18 office staff	1ERW, 8TSC, 2BCT, 3BLS, 6CBM& 18 office staff	1ERW, 9TSC, 1BCT, 1BLS, 6CBM& 18 office staff	1ERW, 9TSC, 1BCT, 1BLS, 6CBM& 18 office staff	This project starts from 01 Jan to 31 Dec 2020.
16	DU6-APOPO	1MDR, 2TSC, 1BC, 1TSD	1MDR, 2TSC, 1BC, 1TSD	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 2020 (TSC#05, BCT#22&MDR#02).
17	DDU-EDC-7-8	1TSC	1TSC	1TSC	1TSC	-This project starts on 16 Mar 2019.
18	DDU-CMA20	6BC, 2TSC, 2DIT	6BC, 2TSC, 2DIT	6BC, 2TSC, 2DIT	6BC, 2TSC, 2DIT	
19	HQ_CCL-02	2EOD, 1ESD	2EOD, 1ESD	2EOD, 1ESD	2EOD, 1ESD	This project starts on 01 Feb 2020.
20	TIMA-CCL2	1ERW& 25 office staff & instructor	1ERW& 25 office staff & instructor	1ERW& 25 office staff & instructor	1ERW& 25 office staff & instructor	This project starts from 01 Jan to 31 Dec 2020.
21	TC- Golden West foundation	1Explosive Harvesting team (8persons)	1Explosive Harvesting team (8persons)	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.
22	Community Development Center (CDC)	2BC	2BC	2BC	2BC	

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



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Figure:1



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

Table 3:

Demining Tool/Asset	No. of Teams	No. of Staff per Team	Total staff in Oct 2020	Actual Staff		Different	Remarks
				Male	Female		
MPL-27staff	1	27	27	23	4	-	
MPL-17staff	6	17	102	73	16	13	
MPC-15staff	2	15	30	24	-	6	Integrated with 2 BLS, each team consists of 5 staff.
BC-9staff	11	9	99	99	-	-	
BC-2staff	14	2	28	28	-	-	
MPD-15staff	8	15	130	96	-	18	Integrated with 2BLS, each team consists of 5 staff.
DM-3staff	2	4	4	4	-	-	
CDM-(9staff)	1	9	9	9	-	-	
SLD	2	10	30	26	2	2	Not including SLD#03, SLD#05 and SLD#12 hired to MAG.
EDD	3	6	12	11	1	-	
TSD	1	5	5	5	-	-	
TSC-7staff	19	7	133	130	3	-	
TSC-5staff	29	5	140	120	6	14	
NTS				-	-	-	
BLS	1	5	5	4	-	1	
BAC-S(7staff)	5	7	35	26	9	-	



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BAC-S(5staff)	4	5	20	20	-	-
MPB (16 Staff)	4	16	68	66	2	-
BAC-MTT	4	5	20	20	-	-
EOD-3staff	2	5	6	6	-	-
ERW	8	5	34	31	-	3
MDR	2	10	20	15	5	-
CBMRR+PC	35	1	35	29	5	1
ESD	1	5	5	4	1	-
DIT	2	5	10	10	-	-
Total	167		1,007	878	71	58

Note:

- Base on the different figure between teams deployed and staff, it shows that at least **0.35%** was lost during the reporting period.

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

Table 4:

Tools/Assets	No. of Tools	Operational team days in Oct 2020		Different	Remarks
		Planned	Actual		
MPL	7	133	124	-9	
BC/MPC	26	494	478	-16	
DM/MPD	10	171	152	-19	
CDM	2	36	36		
SLD	3	57	53	-4	
EDD	2	38	38		
TSD	1	19	19		
TSC	48	912	859	-53	
NTS	0	0	0		
BLS	1	19	19		
BAC-S	9	171	171		
BAC-L	4	76	76		
BAC-MTT	4	76	76		
EOD	2	38	38		
ERW	8	152	147	5	
MDR	2	38	38		
CBMRR	35	665	665		
ESD	1	19	19		
DIT	2	38	38		
Total	167	3,152	3,046	-106	

Note:

- In average, each mobile platoon and mobile team lost at least **-0.63%** 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 **49** 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 October 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 October 2020 provided at least **169** families as direct beneficiaries and **2,451** families as indirect beneficiaries. The Table 5 below is showing us the number of minefields completed and beneficiaries by each DU:

Table5:

DUs	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	621,751	20	-	-	8	-	7
DU2	18	1,619,913	58	1,261	-	26	-	18
DU3	12	548,810	36	1,104	-	16	-	12
DU4	1	206,610	5	22	-	5	-	1
DU5	6	1,362,465	35	-	-	16	-	6
DU6	4	308,037	10	50	-	9	-	4
TIMA	1	121,881	5	14	-	-	-	1
Total	49	4,789,467	169	2,451	-	80	-	49

c) Land Released Productivities as of October 2020

The overall progress achievement for the month of October 2020 was **8,923,718 m²**, which was **1,075,300 m²** was released as C2, and **5,443,945 m²** was released as C3 and **2,404,473 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 **1,720** items of Mine/ERW (518 AP, 3 AT and **1,199** 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 October 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	-	-	-	-	-	-	-
C2 area released	1,075,300	29	-	71	-	7,780	-
C3 area released	5,443,945	475	3	1,099	-	140,558	-
Other Clearance	2,404,473	14	-	29	-	3,159	-
Total	8,923,718	518	3	1,199	-	151,497	-

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

d) BLS operational progress report

In October 2020, two Battle Areas Clearance-Small teams (BAC-S) of DU5 and 1 BSL of DU6 have been deployed to conduct the Baseline Survey services at Prey Veng and Preah Vihear provinces. Regarding this activity, those teams achieved the following results:

Table 7:

Description	DU5	DU6	Total
Number of villages visited	32	6	38
Number of new BLS polygons discovered	31	37	68
32	2,377,760	8,919,201	11,296,961

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, ERW 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 **287** requests (EOD calls) in October 2020, it is **68.82%** 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	October 2020	Accumulative Progress (Jan–Oct 2020)
Areas Cleared (Spot check) in m ²	73,698	270,478
# EOD tasks conducted (Responded)	287	3,274
# APM destroyed	194	2,770
# ATM destroyed	-	39
# ERW destroyed	1,866	17,619
# Improvised mines destroyed	-	-
# Small Arms Ammunition (kg)	85	472
# Fragment (pieces)	524	10,943

Note: -During the reporting period, at least 275 requests with 194 AP, and 1,796 were collected and destroyed by 8ERW, 4BAC-MTT and DU5 OPS section, ERW#16, (DU1), ERW#13,18 , 22 (DU2), ERW#02(DU3), ERW#01(DU4), ERW#08(DU6), ERW#06(TIM), 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)

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 1,687 MRE sessions to 91,894 audiences, and visited 55,813 households and collected 248 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 October 2020.



Table 9: Overview of outputs

Types of Progresses	Demining teams	CBMRR (DFP)	Total
Village visited	396	480	876
Course of MRE session	637	1,050	1,687
Household and field visited	7,398	48,415	55,813
Total audience group attended in MRE Course	25,732	66,162	91,894
➤ Men	10,260	27,874	38,134
➤ Women	10,091	29,430	39,521
➤ Children in school	2,830	5,993	8,823
➤ Out of school children	2,551	2,865	5,416
Total number of requests(M/UXO) and report to EOD	202	46	248
- AP & Improvised mines	22	63	85
- AT mines	-	-	-
- UXO	927	265	1,192
MRE materials have been used for their activities			
- large T-shirt	-	-	-
- Small T-shirt	-	-	-
- Note book	382	-	382
- Poster	222	-	222
- Flyer	22	-	22



Types of Progresses	Demining teams	CBMRR (DFP)	Total
- Leaflet	6	-	6
- Other	6	-	6

Productivity Analysis

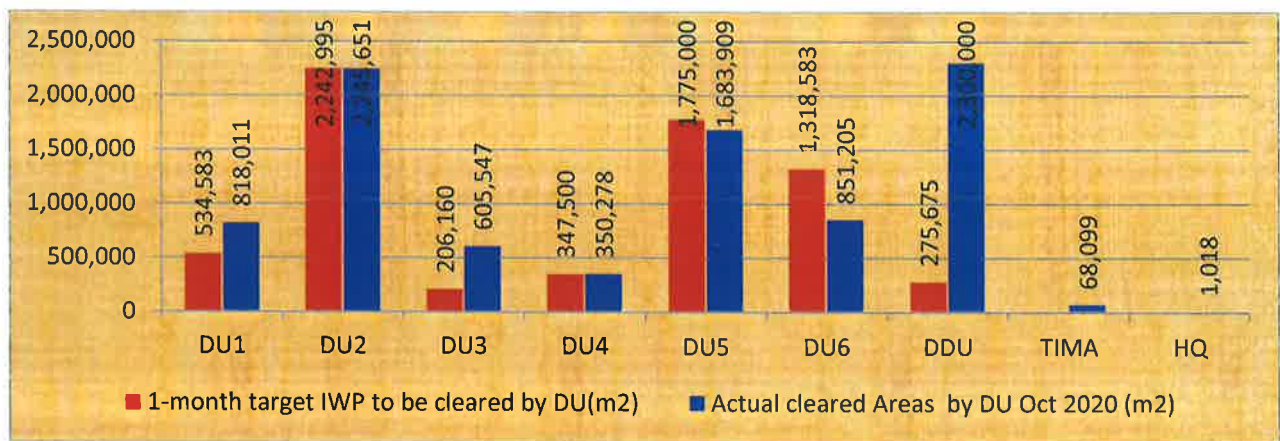
1) Progress Comparison to the Set IWP 2020 (by Month):

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

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

S/N	Demining Unit	Areas to be cleared by DU in October 2020 (m ²)	Actual Achievement in October 2020	
			Actual Progress by DU in October 2020 (m ²)	% in comparing to Monthly Work Plan by DU
1	DU1	534,583	818,011	153.02%
2	DU2	2,242,995	2,245,651	100.12%
3	DU3	206,160	605,547	293.73%
4	DU4	347,500	350,278	100.80%
5	DU5	1,775,000	1,683,909	94.87%
6	DU6	1,318,583	851,205	64.55%
7	DDU	275,675	2,300,000	834.32%
8	TIMA	-	68,099	-
9	HQ	-	1,018	-
	Total	6,700,496	8,923,718	133.18%

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



2) Progress Comparison to 10-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 October 2020.

Table 11: 10- Month Clearance Target VS Accumulative Actual Progress Achievement Jan-Oct 2020

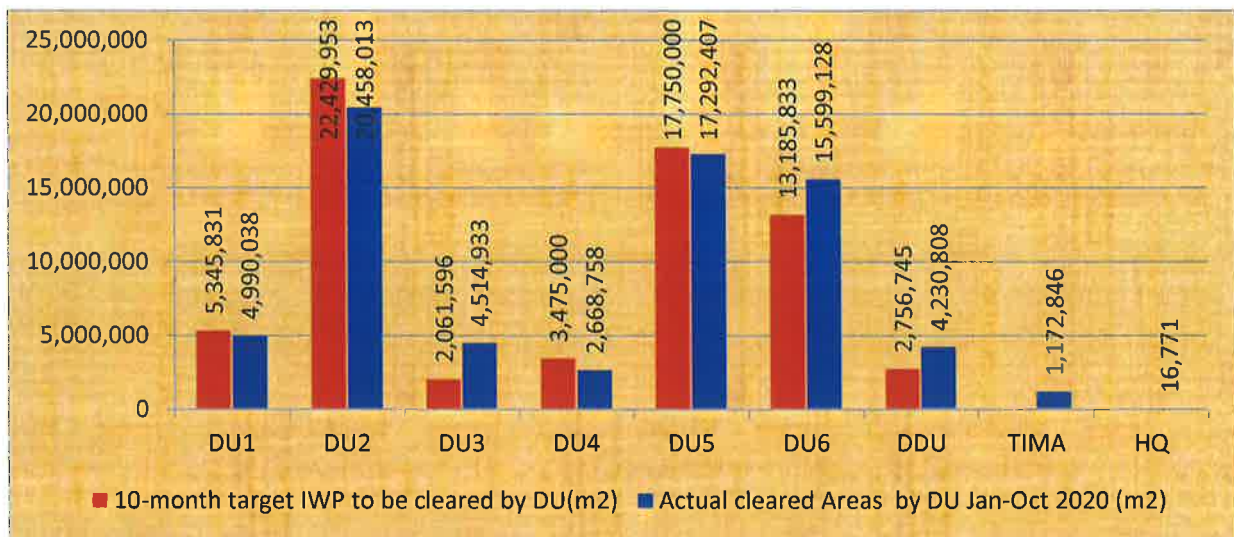
S/N	Demining Unit	10-Month Planned target by DU from Jan-Oct 2020 (m ²)	Actual Achievement from Jan-Oct 2020	
			Accumulative Actual Progress by DU from Jan-Oct 2020 (m ²)	% in comparing to 10-Month Work Plan by DU
1	DU1	5,345,831	4,990,038	93.34%



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2	DU2	22,429,953	20,458,013	91.21%
3	DU3	2,061,596	4,514,933	219.00%
4	DU4	3,475,000	2,668,758	76.80%
5	DU5	17,750,000	17,292,407	97.42%
6	DU6	13,185,833	15,599,128	118.30%
7	DDU	2,756,745	4,230,808	153.47%
8	TIMA	-	1,172,846	-
9	HQ	-	16,771	-
	Total	67,004,958	70,943,702	105.88%

Chart5: Comparison of 10-Month Planned Target VS 10-Month Actual Achievement by Demining Units

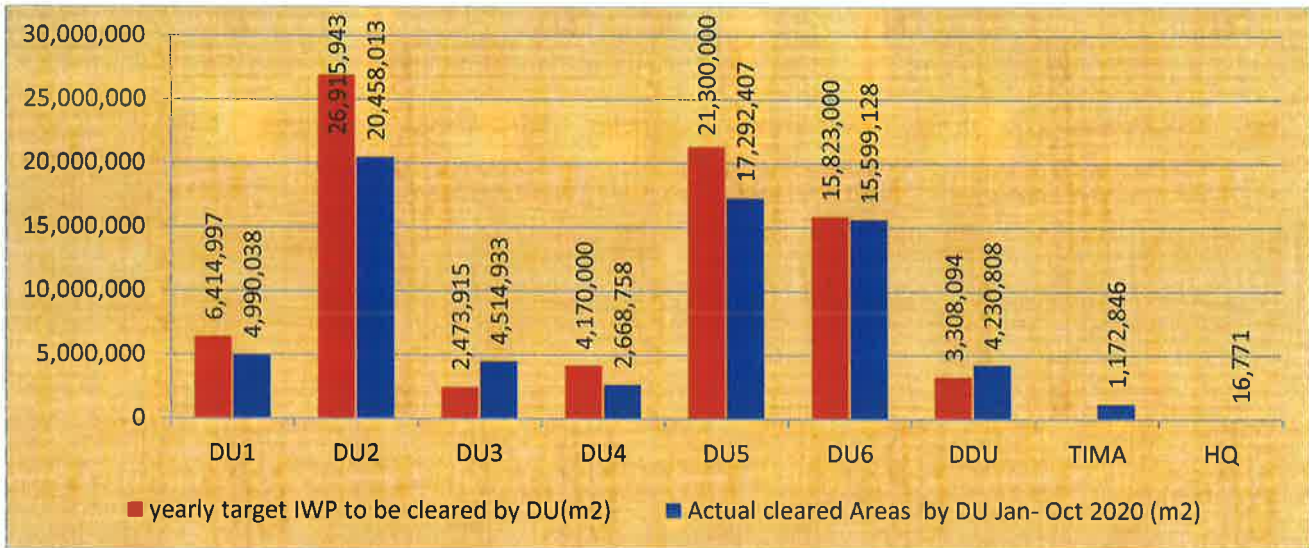


The purpose of setting out the planned target to all Demining Units is for CMAC Internal Monitoring activity at CMAC Senior Level and also to reflect progress achievement against the annual work plan based on existing projects, project target, demining resources, clearances techniques and methodologies 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 October 2020.

Table 12:

S/N	Demining Unit	Annual Work Plan Set, 2020		Actual Achievement from Jan-Oct 2020	
		Areas to be cleared by DU in (m ²)	Annual (%) by DU	Accumulated progress by DU in Jan to Oct 2020 in (m ²)	% in comparing to Annual Work Plan by DU
1	DU1	6,414,997	8.0%	4,990,038	77.79%
2	DU2	26,915,943	33.5%	20,458,013	76.01%
3	DU3	2,473,915	3.1%	4,514,933	182.50%
4	DU4	4,170,000	5.2%	2,668,758	64%
5	DU5	21,300,000	26.5%	17,292,407	81.19%
6	DU6	15,823,000	19.7%	15,599,128	98.59%
7	DDU	3,308,094	4.1%	4,230,808	127.89%
8	TIMA	-	-	1,172,846	-
9	HQ	-	-	16,771	-
	Total	80,405,949	100 %	70,943,702	88.23%

Chart6: Comparison of each DU target set in IWP 2020 VS Actual 10-month Achievement (Jan-Oct 2020)



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

a. **Projects and refreshing course issues:**

No.	Demining Unit	Issues	Lost productivity (m ²)
1	DU3	CMAC has not got the Clearing For Results (CFR) project for DU3 as expectation in October 2020.	206,160
2	DU1&2	There was flood at Banteay Meanchey (DU1) and Battambang (DU2) provinces. It is effected operational some areas so that 3 teams (1BC&2TSC) of DU1 and 15 teams (1MPL, 1SLD, 3BC and 10TSC) didn't work for 4-5 days.	936,316
3	DDU	CMAC has not got the Southwest irrigation project as expectation in October 2020.	275,675
Total			1,418,150

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 (%)
6,700,496 m ²	8,923,718 m ²	1,418,150 m ²	10,341,868 m ²	154.34%

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 October 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 October 2020 to 31 March 2022, CCL02 project of DU6 from 01 January to 31 December 2020 and Clearing For Results so called (CFR) from 01 June to 31 December 2020. However, the accumulative progress of all projects' achievement from the starts up to October 2020 are presenting as below table 11:

Table 13: Some Current Projects Executing up to October 2020



Project Name	Project Duration		Achievement			Project Target	Percentage
	Starting date	End date	Project progress up to last month in 2020 (m ²)	Project progress in Oct 2020 (m ²)	Project accumulated progress up to Oct 2020 (m ²)		
CAC (IMCCD)	16-Aug-20	15-Aug-21	36,230	36,974	73,204	200,000	36.60%
USA-NPA (USA24)	1-Mar-20	28-Feb-21	11,473,420	1,683,909	13,157,329	21,300,000	61.77%
PIMV	1-Jul-20	31-Mar-22	6,043,745	2,070,437	8,114,182	44,940,000	18.06%
CCL-02	1-Jan-20	31-Dec-20	13,937,419	835,277	14,772,696	15,823,000	93.36%
DU1-CFR21	1-Jun-20	31-Dec-20	1,954,626	818,011	2,772,637	4,742,671	58.46%
DU2-CFR22	1-Jun-20	31-Dec-20	2,025,309	743,787	2,769,096	4,874,313	56.81%

4) Operational Factor Analysis:

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

1. **Fragment Contamination (FC)**, in total **151,497** pieces found over a cleared area of **8,923,718 m²**. This is **0.02** pieces per square meter. In percentage of technical terms, it is:
 - **93.35%** of land cleared had light fragment contamination, in the operational areas of all DUs,
 - **6.65%** 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 (15,838 person-days):**
 - 80.41% of total field personnel were present at work
 - 7.15% of total field personnel were assigned to attend CMAC training courses,
 - 0.29% were on mission,
 - 2.51% were on taking annual leave,
 - 0.81% were on sick leave,
 - 0.37% were on compensation leave
 - 0.32% were on maternity leave
 - 0.00% were on leave without pay
 - 0.00% were on leave without permission,
 - 6.26% were shortfall field personnel,
 - 0.00% were absent ,
 - 0.15% were on obligation leave (to work out of the project temporarily...etc),
 - 1.72% were absent for other reasons

3. **Working Hours, in total (16,040 hours-days):**
 - 74.04% of total times were working hours
 - 3.34% of total times were the raining period,
 - 13.47% of total times were the travelling hours,
 - 1.41% of total times were the maintenance periods of all BC and DM teams,
 - 0.22% 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,
 - 0.06% of total times were the movement or replacing accommodation and transportation of goods; and BC or DM to the new location,



- 7.45% of total times were other reasons and or moved BC to assist other development.

4. The Mine Detectors, in total (12,651 mine detector-days):

- 62.52% of all mine detectors (MD) were actually used for the operations.
- 37.48% 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 (552 mine detection dog-days):

- 76.27% of all mine detection dogs (MDD/EDD) were actually used for operations.
- 5.98% of mine detection dogs were assigned to attend refresher training at the CMAC TC and
- 17.21% of mine detection dogs were sick and had to be treated at the CMAC Training Center.
- 0.54% of lack mine detection dogs.

5) Other Reasons Affecting Operational Progress:

a) Adherence to work plan

- During the reporting period as of October 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 **49** minefields have been cleared in October 2020 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, it rained.
- Some operational material/equipment is broken and older.

Demining Unit 2:

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

Demining Unit 5:

- Weather was hot, some time, it rained.
- 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 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: None**

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 2020.



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CAMBODIAN MINE ACTION CENTRE

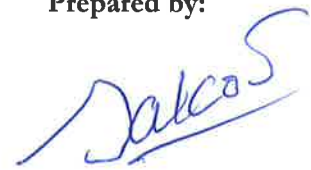
- The Department of Support/HR should strengthen performing its processes of resupply, repairs for operational equipment, vehicles, brush cutters, demining machines and materials smoothly for all DUs.
- Without the equipment support/resupply in time for all Demining teams, it will make decreasing of massive progresses of the performing will not meet the annual target plan of 2020.

Verified by:



Chhin Bunran
 Permanent Deputy Director of Planning
 & Operations
 18 November 2020

Prepared by:



Tep Sakoeun
 Chief of statistics

18 November 2020

Attachment:

- Annex A: CMAC Operational Progress Summary from 1992 up to October 2020
- Annex B: Monthly Progress Report by DU for October 2020
- Annex C: List of Completed Minefields and On-going as of October 2020 (all DUs)
- Annex D: Summary of Baseline Survey Report for October 2020.
- Annex E: Summary of CBMRR Report for October 2020.

CMAC OPERATIONAL SUMMARY PROGRESS REPORT

1992 UP TO Oct 2020

Progress	Total Progress Achievment Up to Date		Other										EOD & MRE Tasks		
	Mine/Ammunition Found & Destroyed										Small Arms (kgs)	Requested	Responded		
	AP mine	AT mine	Improvised Mines	UXO	AXO	Others	Fragments								
UNTAC Mar./92-Oct/93	19,433	132	0	96,486	0	0	0	0	0	0	0	22,085,279	0	0	0
CMAC Nov/93-Dec/94	12,126	121	0	208,854	0	0	0	0	0	0	0	52,334,579	0	0	0
CMAC 1995	22,115	93	0	47,123	0	0	0	0	0	0	0	23,670,218	0	0	0
CMAC 1996	17,126	190	0	31,574	0	0	0	0	0	0	0	64,352,250	0	0	0
CMAC 1997	15,565,421	266	0	32,767	0	0	0	0	0	0	0	12,110,064	0	0	0
CMAC 1998	12,382,541	245	0	47,313	0	0	0	0	0	0	0	19,583,367	0	0	0
CMAC 1999	10,797,705	649	0	67,610	0	0	0	0	0	0	0	17,480,591	0	0	0
CMAC 2000	8,369,635	628	0	45,379	0	0	0	0	0	0	0	20,894,845	0	0	0
CMAC 2001	9,637,455	465	0	77,034	0	0	0	0	0	0	0	14,069,870	0	0	0
CMAC 2002	11,582,239	493	0	61,840	0	0	0	0	0	0	0	19,767,069	0	0	0
CMAC 2003	9,708,686	504	0	76,671	0	0	0	0	0	0	0	21,032,570	0	0	0
CMAC 2004	11,157,336	936	0	106,360	0	0	0	0	0	0	0	20,804,831	4,500	0	0
CMAC 2005	22,086,486	851	0	128,865	0	0	0	0	0	0	0	23,866,907	21,800	0	0
CMAC 2006	26,772,625	1,000	61	113,296	0	61	0	0	0	0	0	26,109,554	5,236	0	9,379
CMAC 2007	27,666,058	587	273	114,755	0	273	0	0	0	0	0	24,732,667	6,706	0	9,334
CMAC 2008	27,653,389	497	166	114,101	0	166	0	0	0	0	0	19,874,891	7,001	0	9,478
CMAC 2009	37,597,125	550	257	135,661	0	257	0	0	0	0	0	14,536,442	16,177	6,800	11,537
CMAC 2010	75,857,186	18,271	310	135,451	0	310	0	0	0	0	0	12,167,273	9,955	13,392	12,443
CMAC 2011	51,945,961	406	229	83,673	5,531	229	0	0	0	3	0	6,277,154	5,752	11,513	9,038
CMAC 2012	76,748,132	558	277	96,439	1,023	277	0	0	0	19	0	7,001,874	4,816	12,407	9,329
CMAC 2013	63,866,530	284	272	111,428	43	272	0	0	0	0	0	4,438,878	4,988	14,028	12,876
CMAC 2014	92,341,445	346	180	98,299	814	180	0	0	0	0	0	4,473,221	2,814	11,066	10,486
CMAC 2015	102,576,537	185	24	51,345	111	24	0	0	0	0	0	3,304,969	501	4,643	4,643
CMAC 2016	86,964,505	128	25	30,005	31	25	0	0	0	0	0	1,560,044	527	2,598	2,618
CMAC 2017	104,052,429	108	109	39,739	20	109	0	0	0	446	0	1,786,155	1,852	3,977	3,974
CMAC 2018	88,603,198	73	108	37,385	3	108	0	0	0	110	0	1,862,413	2,705	3,678	3,681
CMAC 2019	68,101,527	5,524	15	33,074	0	15	0	0	0	18	0	1,314,596	1,401	3,251	3,251
CMAC 2020	70,943,702	103	30	28,591	0	30	0	0	0	562	0	1,395,966	472	3,271	3,274
Jan-2020	6,173,309	26	0	2,522	0	0	0	0	0	0	0	123,822	91	276	276
Feb-2020	7,621,217	766	0	2,822	0	0	0	0	0	0	0	135,997	35	280	280
Mar-2020	7,588,724	556	0	2,588	0	0	0	0	0	5	0	132,066	31	310	310
Apr-2020	6,892,405	642	10	2,574	0	0	0	0	0	553	0	130,705	1	365	368
May-2020	5,982,799	520	6	2,706	0	15	0	0	0	2	0	125,403	14	339	339
Jun-2020	7,777,408	714	2	2,830	0	6	0	0	0	0	0	149,307	14	390	390
Jul-2020	7,673,044	1,047	4	3,901	0	8	0	0	0	0	0	173,800	130	454	454
Aug-2020	5,356,094	474	4	2,425	0	4	0	0	0	0	0	123,394	37	277	277
Sep-2020	6,954,984	653	7	2,958	0	1	0	0	0	2	0	149,975	34	293	293
Oct-2020	8,923,718	712	3	3,065	0	0	0	0	0	0	0	151,497	85	287	287
Nov-2020															
Dec-2020															
Grand Total up to date	1,153,139,922	10,907	2,336	2,253,440	7,576	131,833	462,888,537	97,201	90,624	115,341	115,341	462,888,537	97,201	90,624	115,341

a. *List of Tasks Completed by End of Reporting*

DUUs	S/N	Task ID	Status	S/N	Task ID	Status
DU1	1	BS/CMAA/10389	Completed	5	BS/CMAA/22485	Completed
	2	BS/CMAA/22553	Completed	6	BS/CMAA/22872	Completed
	3	BS/CMAA/23169	Completed	7	BS/CMAA/23173	Completed
	4	BS/CMAA/23357	Completed			
DU2	1	BS/CMAA/06826B	Completed	10	BS/CMAA/01308	Completed
	2	BS/CMAA/07221	Completed	11	BS/CMAA/01409	Completed
	3	BS/CMAA/06979	Completed	12	BS/CMAA/01204	Completed
	4	BS/CMAA/09184B	Completed	13	BS/CMAA/01210	Completed
	5	BS/CMAA/13242	Completed	14	BS/CMAA/09580	Completed
	6	BS/CMAA/09213	Completed	15	BS/CMAA/06809	Completed
	7	BS/CMAA/01721	Completed	16	BS/CMAA/00200	Completed
	8	BS/CMAA/09006	Completed	17	BS/CMAA/00402	Completed
	9	BS/CMAA/30350	Completed	18	BS/CMAA/10395	Completed
DU3	1	BS/CMAA/06847	Completed	7	BS/CMAA/12098	Completed
	2	BS/CMAA/12097	Completed	8	BS/CMAA/02661B	Completed
	3	BS/CMAA/09389	Completed	9	BS/CMAA/12095	Completed
	4	BS/CMAA/12090	Completed	10	BS/CMAA/02662B	Completed
	5	BS/CMAA/01760	Completed	11	BS/CMAA/02664B	Completed
	6	BS/CMAA/35645	Completed	12	BS/CMAA/07228	Completed
DU4	1	BS/CMAA/03972	Completed			
DU5	1	BS/CMAA/08787	Completed	4	BS/CMAA/40929	Completed
	2	BS/CMAA/08824A	Completed	5	BS/CMAA/10217	Completed
	3	BS/CMAA/08753	Completed	6	BS/CMAA/09324	Completed
DU6	1	BS/CMAA/09122	Completed	3	BS/CMAA/10665	Completed
	2	BS/CMAA/09821	Completed	4	BS/CMAA/10723	Completed
TIMA	1	BS/CMAA/04903	Completed			

- Sub-total of Completed mine/UXO fields= 49 Fields

b. *List of Tasks Ongoing by End of Reporting*

DUUs	S/N	Task ID-	Status	S/N	Task ID	Status
DU1	1	BS/CMAA/22539	Ongoing	5	BS/CMAA/11326	Ongoing
	2	BS/CMAA/22552	Ongoing	6	BS/CMAA/22546	Ongoing
	3	BS/CMAA/22883	Ongoing	7	BS/CMAA/22647B	Ongoing
	4	BS/CMAA/23174	Ongoing	8	BS/CMAA/23172A	Ongoing
DU2	1	BS/CMAA/06902	Ongoing	14	BS/CMAA/02244	Ongoing
	2	BS/CMAA/07222	Ongoing	15	BS/CMAA/07135	Ongoing
	3	BS/CMAA/06895	Ongoing	16	BS/CMAA/06729	Ongoing
	4	BS/CMAA/02245	Ongoing	17	BS/CMAA/06886	Ongoing
	5	BS/CMAA/02243	Ongoing	18	BS/CMAA/09654	Ongoing

DU's	S/N	Task ID-	Status	S/N	Task ID	Status
	6	BS/CMAA/06976	Ongoing	19	BS/CMAA/24055	Ongoing
	7	BS/CMAA/03319	Ongoing	20	BS/CMAA/02217	Ongoing
	8	BS/CMAA/09575B	Ongoing	21	BS/CMAA/02232	Ongoing
	9	BS/CMAA/09218	Ongoing	22	BS/CMAA/01385	Ongoing
	10	BS/CMAA/09570	Ongoing	23	BS/CMAA/06831	Ongoing
	11	BS/CMAA/09552	Ongoing	24	BS/CMAA/06848	Ongoing
	12	BS/CMAA/06973	Ongoing	25	BS/CMAA/06902	Ongoing
	13	BS/CMAA/09223	Ongoing	26	BS/CMAA/00357	Ongoing
DU3	1	BS/CMAA/03064C	Ongoing	9	BS/CMAA/02976	Ongoing
	2	BS/CMAA/03821C	Ongoing	10	BS/CMAA/02976B	Ongoing
	3	BS/CMAA/02980	Ongoing	11	BS/CMAA/02937	Ongoing
	4	BS/CMAA/12095	Ongoing	12	BS/CMAA/02974	Ongoing
	5	BS/CMAA/12096	Ongoing	13	BS/CMAA/02814	Ongoing
	6	BS/CMAA/02632	Ongoing	14	BS/CMAA/07230	Ongoing
	7	BS/CMAA/00486B	Ongoing	15	BS/CMAA/03099B	Ongoing
	8	BS/CMAA/00510	Ongoing	16	BS/CMAA/01607B	Ongoing
DU4	1	BS/CMAA/03978	Ongoing	4	BS/CMAA/31236	Ongoing
	2	BS/CMAA/31269	Ongoing	5	BS/CMAA/04065	Ongoing
	3	BS/CMAA/31234	Ongoing			
DU5	1	BS/CMAA/08786	Ongoing	9	BS/CMAA/09324	Ongoing
	2	BS/CMAA/11030	Ongoing	10	BS/CMAA/10214	Ongoing
	3	BS/CMAA/08704	Ongoing	11	BS/CMAA/08824A	Ongoing
	4	BS/CMAA/11031	Ongoing	12	BS/CMAA/32711	Ongoing
	5	BS/CMAA/10971	Ongoing	13	BS/CMAA/09335A	Ongoing
	6	BS/CMAA/11336	Ongoing	14	BS/CMAA/09321A	Ongoing
	7	BS/CMAA/ 10337	Ongoing	15	BS/CMAA/07835B	Ongoing
	8	BS/CMAA/10935	Ongoing	16	BS/CMAA/07479	Ongoing
DU6	1	BS/CMAA/12352	Ongoing	6	BS/CMAA/10722	Ongoing
	2	BS/CMAA/04598A	Ongoing	7	BS/CMAA/10658	Ongoing
	3	BS/CMAA/04288	Ongoing	8	BS/CMAA/12356	Ongoing
	4	BS/CMAA/06035C	Ongoing	9	BS/CMAA/12357	Ongoing
	5	BS/CMAA/09446	Ongoing			
TIMA	1		Ongoing			

- Sub -Total Ongoing mine/UXO fields = 80 fields

Grand Total: 129 fields

Summary of DU5 & DU6 Baseline Survey Report in Oct 2020

Description	DU5	DU6	Total	Remarks
Village Visited	32	6	38	
New BLS polygons discovered	31	37	68	
Total New BLS Size (m ²)	2,377,760	8,919,201	11,296,961	