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Cambodian Mine Action Centre

CMAC

Operational Achievement Report



December - 2020



CMAC Monthly Operational Achievement Report

Period: 01 – 31 December 2019





1. General Situation

In December 2019, all CMAC Demining Components and Demining Units were assigned to work for 21 working days with 1-day was day off for 1-day of Human Rights Day (10 December 2019). But each Demining Unit was still permitted to perform demining tasks based on the proposed working calendar approved by the CMAC top management. 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 5 Intervention Teams, called Explosive Remnants of War Intervention (ERWI) at DU1, DU2, DU4 and DU6 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 December 2019 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: December 2019

| Demining Tool | Actual Demining Assets (Tools) | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--------------------------------|----------------|---------------|---------------|-------------|-------------|-------------|---------|------------|------------|------------|------------|------------|------------|------|-----|---------|-----|----------|-----------|-----|-----------|-------|-------|---------|---|
| | MP (27staff) | BAC-L(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-MTT | USD | BC-2saff | BC-9staff | CDM | DM-3staff | DM-12 | DM-21 | CBM/CBU | |
| DU#1(BMC) | 1 | - | 1 | - | 1 | 6 | - | 1 | - | - | - | - | - | - | 1 | - | - | - | 1 | 4 | - | 1 | - | - | - | 5 |
| DU#2(BTB, PST) | 1 | - | - | - | 1 | 8 | - | 1 | 3 | 3 | - | - | - | - | 2 | - | - | - | 3 | 2 | - | - | 3 | 5 | 12 | |
| DU#3(PLN) | - | - | 1 | - | 2 | 4 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 3 |
| DU#4 (SRP & Kg Thom, PVH) | 4 | - | - | - | - | 6 | - | - | - | - | - | - | - | 1 | 1 | - | - | - | 1 | 1 | 1 | 1 | - | - | - | 3 |
| DU#5 (Eastern provinces) | - | 4 | 3 | 6 | - | - | 11 | - | - | - | 2 | - | - | - | - | - | 4 | - | 1 | - | - | - | - | - | - | 4 |
| DU#6 (PVH, STR& OMC) | - | - | - | - | 2 | - | - | - | - | - | - | - | 1 | 1 | - | 1 | - | - | 1 | - | - | - | - | - | - | 4 |
| Development Demining Unit (DDU) | - | - | - | - | 3 | 3 | - | - | - | - | - | - | - | - | - | 1 | - | - | 5 | 1 | - | - | - | - | - | - |
| CMAC HQ (Phnom Penh) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - |



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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-19 | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Remarks |
|-----|---------------------------|--|--|--|--|--|--|--|
| 1 | DU1-CRF18 | 1BC, 2TSC, 1BAC, 3CBM&PC | 1BC, 2TSC, 1BAC, 3CBM&PC | 3BC, 7TSC, 1BAC, 3CBM&PC | 3BC, 7TSC, 1BAC, 3CBM&PC | 3BC, 7TSC, 1BAC, 3CBM&PC | 3BC, 7TSC, 1BAC, 3CBM&PC | 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). |
| 2 | DU1, PCD-JMAS | 1MP,2BC, 1DM, 1ERWI | 1MP,2BC, 1DM, 1ERWI | 1MP,2BC, 1DM, 1ERWI | 1MP,2BC, 1DM, 1ERWI | 1MP,2BC, 1DM, 1ERWI | 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 | 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 | 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 | DU1-NTS-BLS | - | - | - | 1NTS.BLS | 1NTS.BLS | 1NTS.BLS | This project starts from 01 Oct. to 31 Dec. 2019 |
| 5 | DU2-CFR19 | 1BC, 1TSC, 1SLD, | 1BC, 1TSC, 1SLD, | 1BC, 3TSC, 1SLD, | 1BC, 3TSC, 1SLD, | 1BC, 3TSC, 1SLD, | 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). |
| 6 | DU2-CMA19 | 1PC, 10 CBM | 1PC, 10 CBM | 1PC, 10 CBM | 1PC, 10 CBM | 1PC, 10 CBM | 1PC, 10 CBM | This project starts from 01 Jan 2019 until new notice. |
| 7 | DU2-CAC (IMCC) | 1TSC | 1TSC | 1TSC | 1TSC | 1TSC | 1TSC | This project is just renewed for a new agreement from 16 August 2019 to 15 August 2020. |
| 8 | DU2-IMV3 | 1MP, 8DM, 4TSC, 1SLD, 2ERWI, 4CBM, project staff | 1MP, 8DM, 4TSC, 1SLD, 2ERWI, 4CBM, project staff | 1MP, 8DM, 4TSC, 1SLD, 2ERWI, 4CBM, project staff | 4MP, 8DM, 5TSC, 2SLD, 2ERWI, 4CBM, project staff | 4MP, 8DM, 5TSC, 2SLD, 2ERWI, 4CBM, project staff | 4MP, 8DM, 5TSC, 2SLD, 2ERWI, 4CBM, project staff | 1)-IVM3 project starts from 01 Nov 2016 to 31 Oct 2019. 2)-3MP(#119, 135”) and 4TSC(#11, 13, 24) moved to work at DU4_Apsara on 01 Jul 2019.. |
| 9 | DU2-MAG | 3SLD | 3SLD | 3SLD | 3SLD | 3SLD | 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) |
| 10 | - | - | - | - | 1NTS.BLS | 1NTS.BLS | 1NTS.BLS | This project starts from 01 Oct 2019 to 31 Jan. 2020. |



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| S/N | Project's name | July-19 | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Remarks |
|-----|----------------------|--|--|--|---|---|--|---|
| 11 | DU3-IMV3 | 3TSC | 3TSC | 3TSC | 3TSC | 3TSC | 3TSC | These teams moved from DU2 on 01 Sep 2018 until new notice.. |
| 12 | DU3-CFR20 | 1BC, 2TSC 1BAC | 1BC, 2TSC 1BAC | 1BC, 4TSC, 1BAC, 1CBMRR | 1BC, 4TSC, 1BAC, 1CBMRR | 1MP, 1BC, 4TSC, 1BAC, 1CBMRR | 1MP, 1BC, 4TSC, 1BAC, 1CBMRR | 1)-This project starts from 01 Jan 2019 to 31 Dec 2019. 2)- 2TSC (#06&30), and 1 CBMRR start 01 Sep to 31 Dec 2019 (Top up). |
| 13 | DU3-CMA-19 | 3CBM-PC, DU3 some office staff | 3CBM-PC, DU3 some office staff | 2CBM-PC, DU3 some office staff | 2CBM-PC, DU3 some office staff | 2CBM-PC, DU3 some office staff | 2CBM-PC, DU3 some office staff | |
| 14 | - | - | - | - | 1NTS.BLS | 1NTS.BLS | 1NTS.BLS | This project starts from 01 Oct 2019 to 31 Jan. 2020. |
| 15 | DU4-MDR- APOPO | 1BC, 1TSC | 1BC, 1TSC | 1BC, 1TSC | 1BC, 1TSC | 1BC, 1TSC | 1BC, 1TSC | 1)-This project starts on 01 Jan to 31 Dec 2019 (MRD#01, TSC#22, BC#25 and 5 staff). |
| 16 | DU4, CMD_JMAS | 1CDM, 1BC, 1DM, 1ERWI, CBURR | 1CDM, 1BC, 1DM, 1ERWI, CBURR | 1CDM, 1BC, 1DM, 1ERWI, CBURR | 1CDM, 1BC, 1DM, 1ERWI, CBURR | 1CDM, 1BC, 1DM, 1ERWI, CBURR | 1CDM, 1BC, 1DM, 1ERWI, CBURR | This project starts on 01 March 2019 to 28 February 2020 |
| 17 | DU4-APSARA | 8TSC, 2EOD,2USD, 4MPL | 4TSC, 2EOD,1USD, 4MPL | 2EOD, 4MPL | 2EOD, 1MPL | 1EOD, | | This project starts on 1 May 2019. |
| 18 | DU4-CMA-19 | 2CBM, 1EOS, 13 office staff | 2CBM, 1EOS, 13 office staff | 2CBM, 1EOS, 13 office staff | 2CBM, 1EOS, 13 office staff | 2CBM, 1EOS, 13 office staff | 2CBM, 1EOS, 13 office staff | This project starts from August 1, 2019 until January 31, 2020.. |
| 19 | DU4-Peace Boat | | 1TSC | 1TSC | 1TSC | 1TSC | 1TSC | This project starts on 1 May 2019. |
| 20 | DU5& HQ – USA23 | 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 | 9BAC-S, 4BAC-L, 4BAC- MTT, 2EDD, 1BC | 9BAC-S, 4BAC-L, 4BAC-MTT, 2EDD, 1BC | 1)-This project starts on 01 March 2019 to 28 February 2020. |
| 21 | DU5_USA-23 (BLS) | | 11 BLS | 11 BLS | 11 BLS | 11 BLS | 11 BLS | 1)-This project starts on 05 August 2019 to 29 February 2020. |
| 22 | DU6_CMA-19 | 3CBM, 11 staff | 3CBM, 11 staff | 3CBM, 11 staff | 3CBM, 11 staff | 3CBM, 11 staff | 3CBM, 11 staff | This project starts on 1 May 2019. |
| 23 | DU6-APOPO | 1MRD, 2TSC, 1BC, 1PC, 1TSD | 1MRD, 1TSC, 1BC, 1PC, 1TSD | 1MRD, 1TSC, 1BC, 1PC, 1TSD | 1MRD, 1TSC, 1BC, 1PC, 1TSD | 1MRD, 1EOD, 1TSC, 1BC, 1PC, 1TSD | 1MRD, 1EOD, 1TSC, 1BC, 1PC, 1TSD | 1)-This project starts on 01 November 2018. 2)- This team has been deployed on 01 Jan to 30 April 2019. |
| 24 | DDU-EDC-7-8 | 4TSC, 2BC | 4TSC, 2BC | 1TSC | 1TSC | 1TSC | 2TSC,1EOD | -This project starts on 16 Mar 2019. -1EOD 1TSC start working on 25 Nov 2019 to 29 Feb 2020. |
| 25 | DDU-NR5- 4(RGC16) | 3TSC, 3BC | 2BC | 2BC | 2BC | 2BC | 2BC | This project have been renewed from 1 Jan to 30 Jun 2020. |
| 26 | DDU-NR5- 4(RGC17) | 3BC,2TSC, 1ECS and 1 | 3BC,2TSC, and 1 EOD | 3BC,1TSC | 3BC,1TSC | 3BC,1TSC | 3BC,1TSC | This project have been renewed from |

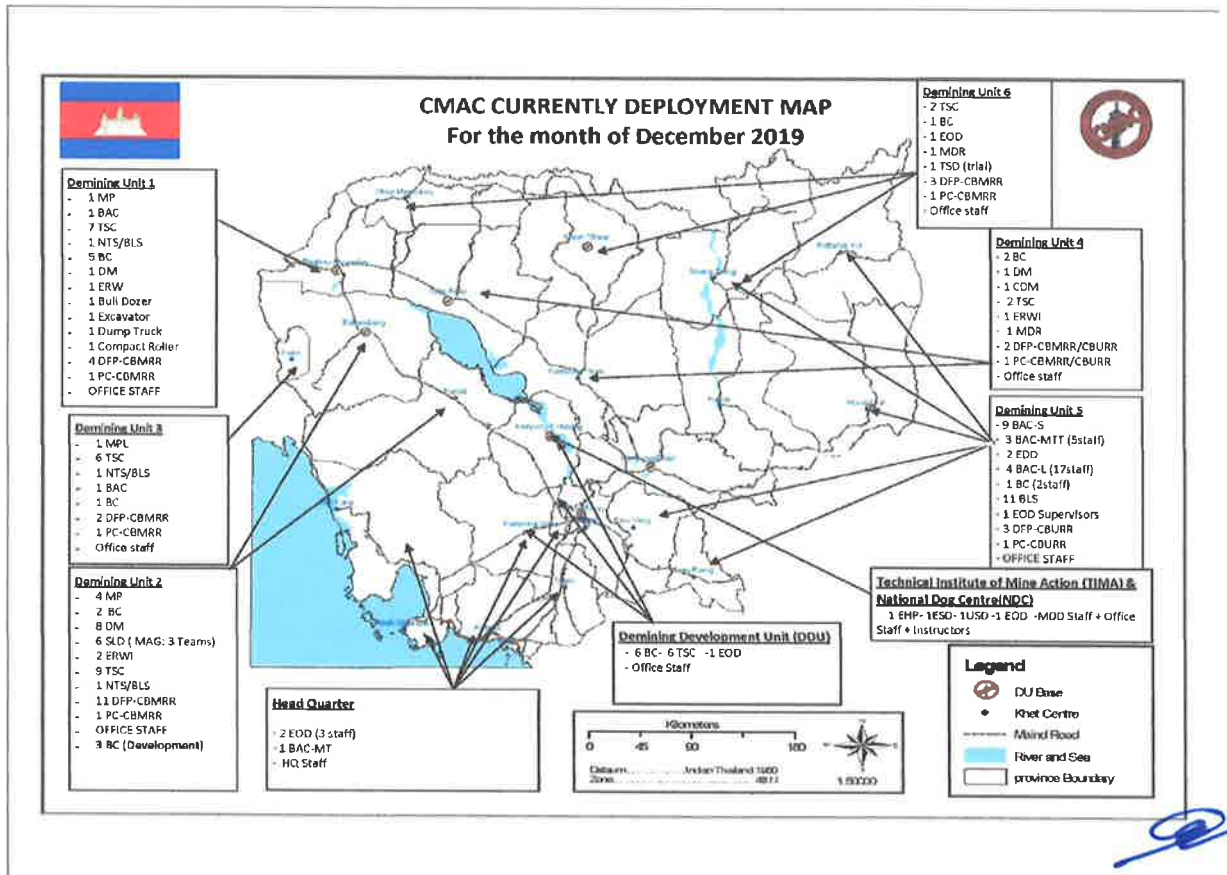


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| S/N | Project's name | July-19 | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | Remarks |
|-----|------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---|
| | | EOD | | | | | | 1 Jan to 30 Jun 2020. |
| 27 | DDU-NR5-4(RGC18) | 2BC,2TSC and 1 CRWS | 2BC,1TSC | 1BC,3TSC | 1BC,3TSC | 1BC,3TSC | 1BC,3TSC | This project have been renewed from 1 Jan to 30 Jun 2020. |
| 28 | HQ_CMA-19 | 2EOD | 2EOD | 2EOD | 2EOD | 2EOD | 2EOD | This project starts on 01 May 2019. |
| 29 | TIMA-CMA-19 | Instructors , office staff | Instructors , office staff | Instructors , office staff | Instructors , office staff | Instructors , office staff | Instructors , office staff | This project starts on 01 May 2019. |
| 30 | TIMA-Apsara | | | 1USD&1EOD | 1USD&1EOD | 1USD&1EOD | 1USD&1EOD | This project starts on 01 September 2019. |
| 31 | NDC_CMA-19 | 1ESD, 1SLD, 27staff | 1ESD, 1SLD, 27staff | 1ESD, 1SLD, 27staff | 1ESD, 1SLD, 27staff | 1ESD, 1SLD, 27staff | 1ESD, 1SLD, 27staff | This project starts on 01 May 2019. |
| 32 | TC- Golden West foundation | 1Explosive Harvesting team (8persons) | 1Explosive Harvesting team (8persons) | 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. |
| 33 | Community Development Center (CDC) | 2BC | 2BC | 2BC | 2BC | 2BC | 2BC | |

The below figure is the CMAC deployment map as of December 2019

Figure:1





a. Teams Deployed Vs Staff of the month of December 2019

Table 3:

| Demining Tool/Asset | No. of Teams | No. of Staff per Team | Total staff in Dec 2019 | Actual Staff | | Different | Remarks |
|---------------------|--------------|-----------------------|-------------------------|--------------|-----------|-----------|---|
| | | | | Male | Female | | |
| MPL-27staff | 6 | 27 | 162 | 126 | 16 | 20 | |
| BC-9staff | 9 | 9 | 81 | 75 | 4 | 2 | |
| BC-2staff | 14 | 2 | 28 | 28 | 0 | | |
| DM-21staff | 5 | 21 | 105 | 89 | 9 | 7 | |
| DM-12staff | 3 | 12 | 36 | 31 | 4 | 1 | |
| DM-2staff | 2 | 4 | 4 | 4 | - | - | |
| CDM-(9staff) | 1 | 9 | 9 | 9 | - | - | |
| SLD | 3 | 10 | 30 | 27 | - | 3 | Not including SLD#03, SLD#05 and SLD#12 hired to MAG. |
| EDD | 2 | 6 | 12 | 11 | 1 | | |
| TSC-7staff | 23 | 7 | 161 | 152 | 6 | 3 | |
| TSC-5staff | 9 | 5 | 45 | 42 | 3 | | |
| NTS.BLS-5staff | 3 | 5 | 15 | 14 | - | 1 | |
| ECS-5staff | | | | | - | | |
| BLS | 11 | 5 | 55 | 54 | 1 | | |
| BAC-S(7staff) | 5 | 7 | 35 | 26 | 9 | | |
| BAC-S(5staff) | 6 | 5 | 30 | 29 | 1 | | |
| BAC-L (16 Staff) | 4 | 16 | 68 | 66 | 2 | | |
| BAC-MTT | 4 | 5 | 20 | 20 | 0 | | |
| EOD-5staff | 3 | 5 | 15 | 14 | 0 | 1 | |
| EOD-3staff | 2 | 3 | 6 | 6 | 0 | | |
| CRWS-5staff | 0 | 0 | 0 | 0 | 0 | | |
| ERWI | 4 | 5 | 20 | 20 | 0 | | |
| MDR | 2 | 10 | 20 | 14 | 6 | | |
| CBMRR | 31 | 1 | 30 | 24 | 6 | | |
| ESD | 1 | 5 | 5 | 3 | 2 | | |
| USD | 1 | 5 | 5 | 3 | 2 | | |
| Total | 154 | | 997 | 827 | 70 | 38 | |

Note:

- Base on the different figure between teams deployed and staff, it shows that at least **0.25%** was lost during the reporting period.

b. Planned and actual operational team-days of the month of December 2019

Table 4:

| Tools/Assets | No. of Tools | Operational team days in Dec 2019 | | Different | Remarks |
|--------------|--------------|-----------------------------------|--------|-----------|---|
| | | Planned | Actual | | |
| MPL | 6 | 126 | 126 | | - In average, one MP 0.17 team.day a month. MP#120 of DU1_JMAS moved to new accommodation. |
| BC | 23 | 483 | 483 | | - In average, one BC 0.13 team.day a month. BC of DU1_JMAS waited for spare part and fixed. |



| Tools/Assets | No. of Tools | Operational team days in Dec 2019 | | Different | Remarks |
|--------------|--------------|-----------------------------------|--------------|-----------|--|
| | | Planned | Actual | | |
| DM | 10 | 210 | 210 | | |
| CDM | 1 | 21 | 21 | | |
| SLD | 3 | 63 | 42 | 21 | - In average, one SLD 7 team.day a month. SLD#06 of DU2_IMV-3. It's car was fixed whole month. |
| EDD | 2 | 42 | 42 | | |
| TSC | 32 | 672 | 672 | | |
| TNS.BLS | 3 | 63 | 63 | | |
| BLS | 11 | 231 | 231 | | |
| BAC-S | 11 | 231 | 231 | | |
| BAC-L | 4 | 84 | 84 | | |
| BAC-MTT | 4 | 84 | 84 | | |
| EOD | 5 | 105 | 105 | | |
| ERWI | 4 | 84 | 84 | | |
| MDR | 2 | 42 | 39 | 3 | - In average, one MDR 1.50 team.day a month. MDR#01 of APOPO got refresher training. |
| CBMRR | 31 | 651 | 651 | | |
| ESD | 1 | 21 | 21 | | |
| USD | 1 | 21 | 21 | | |
| Total | 154 | 3,234 | 3,210 | 24 | |

Note:

- In average, each mobile platoon and mobile team loses at least **0.16%** 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 **100** 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 December 2019

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



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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 December 2019 provided at least **293** families as direct beneficiaries and **6,295** families as indirect beneficiaries. The Table 5 below is showing us the number of minefields completed and beneficiaries by each DU:



Table 5:

| 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 | 30 | 1,364,365 | 66 | 291 | - | - | 30 | |
| DU2 | 28 | 4,045,668 | 67 | 3,678 | - | - | 28 | |
| DU3 | 10 | 1,012,116 | 15 | 1,794 | - | - | 10 | |
| DU4 | 6 | 605,524 | 21 | 341 | - | - | 6 | |
| DU5 | 22 | 5,061,882 | 64 | - | - | - | 22 | |
| DU6 | 4 | 301,042 | 60 | 191 | - | - | 4 | |
| Total | 100 | 12,390,597 | 293 | 6,295 | - | - | 100 | |

c) Land Released Productivities as of December 2019

The overall progress achievement for the month of December 2019 was **6,463,356m²**, which was **59,096m²** was released as C1, **1,104,121m²** was released as C2, and **5,238,506m²** was released as C3 and **61,633m²** 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 **1,545** items of Mine/ERW (**410** AP, **2** AT and **1,133** 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 December 2019.

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 | 59,096 | - | - | - | - | - | - |
| C2 area released | 1,104,121 | 7 | - | 36 | - | 3,018 | - |
| C3 area released | 5,238,506 | 403 | 2 | 1,093 | - | 132,779 | - |
| Other Clearance | 61,633 | - | - | 4 | - | 1,143 | - |
| Total | 6,463,356 | 410 | 2 | 1,133 | 0 | 136,940 | - |

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, **166** villages were visited in December 2019, and it is **155.14%** more than monthly target plan 2019 (as of **107** villages per month). In total from August to December 2019, all teams visited **552** villages; it is **74.19%** by comparing to the project target (as of 744 villages). Regarding this activity, those teams achieved the following results:

Table 7:

| Description | December 2019 | Accumulative Progress (Aug–Dec 2019) |
|---------------------------------------|---------------|--------------------------------------|
| Number of villages visited | 166 | 552 |
| Number of new BLS polygons discovered | 355 | 998 |
| BLS size (m ²) | 41,449,622 | 139,819,985 |

Note: progress above including **57** BLS polygons and BSL size: **4,022,402** m² have been discovered by 3 NTS-BLS have been deployed operations at DU1, 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 5 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 **313** requests (EOD calls) in December 2019, it is **37.58%** lower than monthly target plan 2019 (as of **833** 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 | December 2019 | Accumulative Progress (Jan–Dec 2019) |
|--|---------------|--------------------------------------|
| Areas Cleared (Spot check) in m ² | 9,268 | 152,949 |
| # EOD tasks conducted (Responded) | 313 | 3,251 |
| # APM destroyed | 146 | 1,447 |
| # ATM destroyed | 3 | 55 |
| # ERW destroyed | 3,304 | 21,124 |
| # Improvised mines destroyed | - | - |
| # Small Arms Ammunition (kg) | 145 | 1,246 |
| # Fragment (pieces) | 1,444 | 18,666 |



Note: -During the reporting period, at least **281** requests with **124** AP mines and **3,244** were collected and destroyed by 7ERWI, 4BAC-MTT and DU5 OPS section, ERWI#16, (DU1), ERWI#13,18 (DU2) ERWI#01, (DU4), 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)

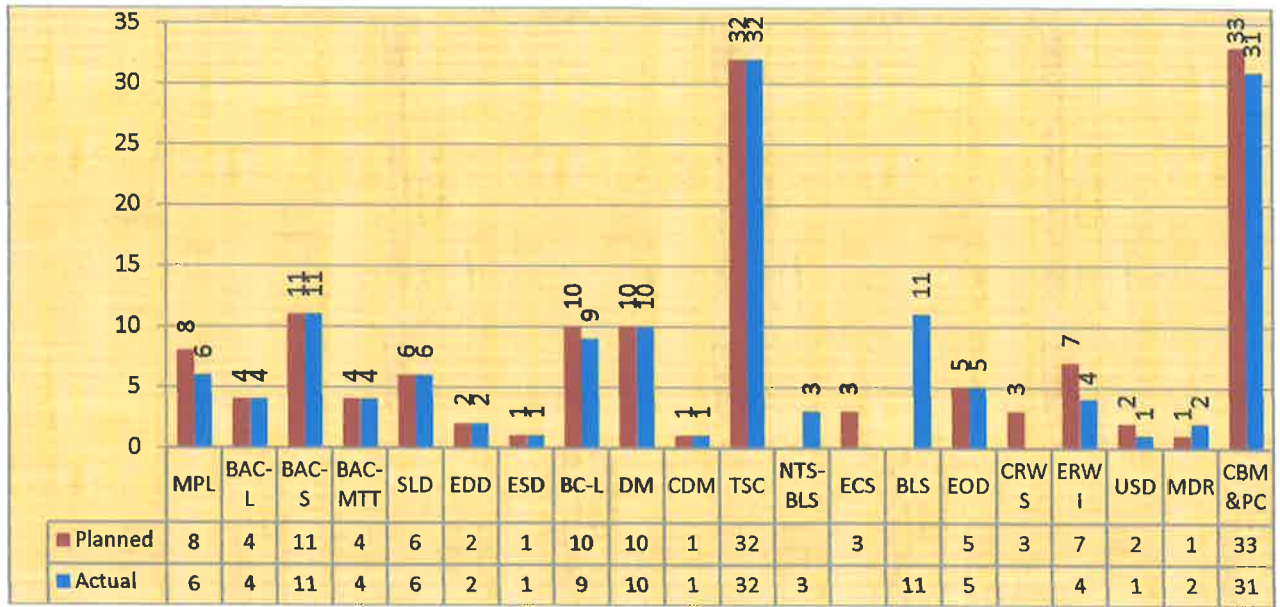
A part from landmine and UXO clearance as called land release, MRE approaches and methods are also combined into the expert teams and platoons to do MRE activities in the working target areas. These teams and platoons had conducted households and field visits and also concentration of MRE messages to 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 1,355 MRE sessions to **57,739** audiences, and visited **10,026** households and collected **187** 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 December 2019.

Table 9: Overview of outputs

| Types of Progresses | Demining teams | CBMRR (DFP) | Total |
|--|----------------|---------------|---------------|
| Village visited | 408 | 210 | 618 |
| Course of MRE session | 678 | 677 | 1,355 |
| Household and field visited | 5,960 | 4,066 | 10,026 |
| Total audience group attended in MRE Course | 45,098 | 12,641 | 57,739 |
| ➤ Men | 14,340 | 4,333 | 18,673 |
| ➤ Women | 16,271 | 4,339 | 20,610 |
| ➤ Children in school | 11,263 | 2,619 | 13,882 |
| ➤ Out of school children | 3,224 | 1,350 | 4,574 |
| Total number of requests(M/UXO) and report to EOD | 195 | 45 | 240 |
| AP & Improvised mines | 38 | 42 | 80 |
| AT mines | | 1 | 1 |
| UXO | 606 | 103 | 709 |
| MRE materials have been used for their activities | | | |
| - large T-shirt | - | - | - |
| - Small T-shirt | - | - | - |
| - Note book | 375 | 10 | 385 |
| - Poster | 180 | 30 | 210 |
| - Flyer | 5 | 44 | 49 |
| - Leaflet | - | - | - |
| - Other | - | - | - |

Productivity Analysis

- Major Planned tools of IWP 2019 comparison to the Actual tools (by Month)
 The planned demining tools have been set up was more than actual deployment of demining tools in December 2019.



2) Progress Comparison to the Set IWP 2019 (by Month):

The table below is demonstrated the Set of Demining Tools and Monthly Clearance Target in IWP 2019 by comparing with the Actual Monthly Target and Progress Achievement accomplished in December 2019.

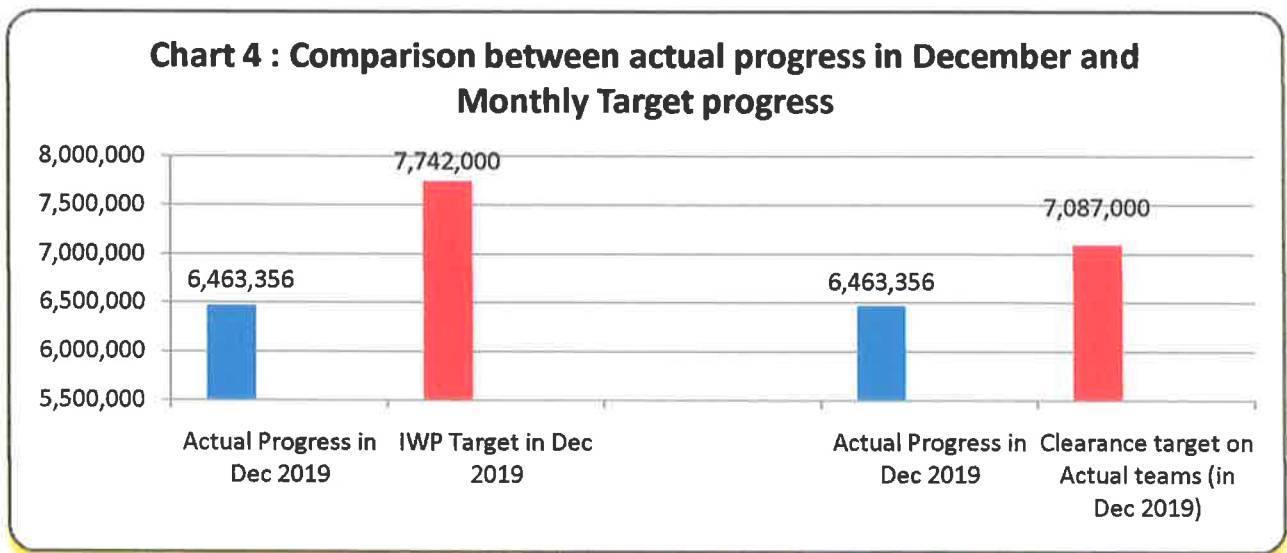
Table 10: Monthly Clearance Target and Actual Progress Achievement December 2019

| Tools/Assets | Integrated Work Plan 2019 | | | | Achievement in Dec 2019 | | Different of Progress (m ²) |
|------------------|---------------------------|------------------------------|--|---|---|---|---|
| | No. of Tools in Plan | No. of Actual Tools deployed | Monthly Clearance Target (m ²) | Total Monthly Clearance Target in IWP (m ²) | Total Actual Monthly Target (m ²) | Actual Progress in Dec 2019 (m ²) | |
| MPL (27 staff) | 6 | 6 | 80,000 | 480,000 | 480,000 | 402,796 | 77,204 |
| BC (9 staff) | 10 | 9 | 75,000 | 750,000 | 675,000 | 655,056 | 94,944 |
| DM (21 staff) | 5 | 5 | 120,000 | 600,000 | 600,000 | 629,439 | 29,439 |
| DM (3 staff) | 5 | 5 | 75,000 | 375,000 | 375,000 | 443,763 | 68,763 |
| CDM | 1 | 1 | 55,000 | 55,000 | 55,000 | 45,693 | 9,307 |
| SLD | 3 | 2 | 50,000 | 150,000 | 100,000 | 153,458 | 3,458 |
| EDD | 2 | 2 | 70,000 | 140,000 | 140,000 | 190,710 | 50,710 |
| TSC (7 staff) | 26 | 23 | 60,000 | 1,560,000 | 1,380,000 | 923,690 | 636,310 |
| TSC (5 staff) | 11 | 7 | 45,000 | 495,000 | 315,000 | 234,046 | 260,954 |
| ECS | 1 | | 80,000 | 80,000 | 0 | | 80,000 |
| BLS | 11 | 11 | | | | | 744 Villages |
| NTS/BLS | | | | | | 59,096 | |
| BAC-S (TS) | 9 | 9 | 150,000 | 1,350,000 | 1,350,000 | 911,220 | 438,780 |
| BAC-S (FC) | 2 | 2 | 50,000 | 100,000 | 100,000 | 66,258 | 33,742 |
| BAC-L (16 staff) | 4 | 4 | 270,000 | 1,080,000 | 1,080,000 | 1,277,402 | 197,402 |



| | | | | | | | |
|---------------|------------|------------|--------|------------------|------------------|------------------|------------------|
| BAC-MTT | 4 | 4 | 50,000 | 200,000 | 200,000 | 253,933 | 53,933 |
| EOD (3 staff) | 2 | 2 | 1,000 | 2,000 | 2,000 | 36,287 | 34,287 |
| CRWS | 1 | | 80,000 | 80,000 | 0 | | 80,000 |
| ERWI | 7 | 7 | 25,000 | 175,000 | 175,000 | 48,184 | 126,816 |
| MDR | 2 | 2 | 25,000 | 50,000 | 50,000 | 92,325 | 42,325 |
| USD | 2 | 1 | 10,000 | 20,000 | 10,000 | | 20,000 |
| DDU | | | | | | 40,000 | |
| Total | 148 | 133 | | 7,742,000 | 7,087,000 | 6,463,356 | 1,377,740 |

As shown in Table 9 above, the actual progress of December 2019 is **6,463,356m²**, If this is compared to the overall CMAC monthly clearance set within IWP 2019, it presents **83.48%** by comparing to the monthly clearance as of December 2019 (**7,742,000m²**) and/or less than the target of **16.52%**. But if this progress (as of **6,463,356m²**) of December 2019 is compared to the Actual CMAC monthly clearance target (as of **7,087,000m²**) of December 2019, it presents at least **91.20%**, and/or it is **8.80%** less than the Actual CMAC monthly clearance target of December 2019.



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 December 2019.

Table 11:

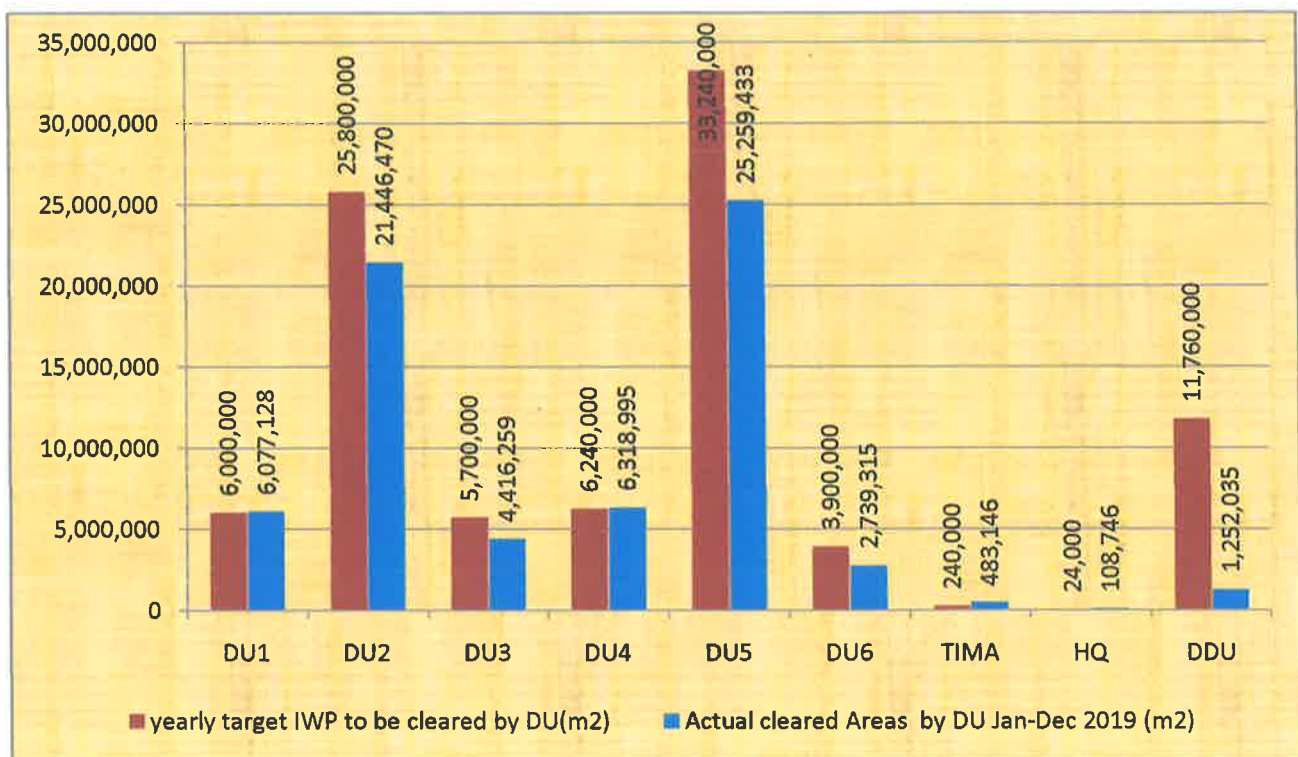
| S/N | Demining Unit | Annual Work Plan Set, 2019 | | Actual Achievement, 2019 | |
|-----|---------------|--|------------------|--|--|
| | | Areas to be cleared by DU in (m ²) | Annual (%) by DU | Accumulated progress by DU in Jan to Dec 2019 in (m ²) | % in comparing to Annual Work Plan by DU |
| | | | | | |



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CAMBODIAN MINE ACTION CENTRE

| | | | | | |
|---|--------------|-------------------|--------------|-------------------|---------------|
| 1 | DU1 | 6,000,000 | 6.46 % | 6,077,128 | 101.29% |
| 2 | DU2 | 25,800,000 | 27.77 % | 21,446,470 | 83.13% |
| 3 | DU3 | 5,700,000 | 6.14 % | 4,416,259 | 77.48% |
| 4 | DU4 | 6,240,000 | 6.72 % | 6,318,995 | 101.27% |
| 5 | DU5 | 33,240,000 | 35.78 % | 25,259,433 | 75.99% |
| 6 | DU6 | 3,900,000 | 4.20 % | 2,739,315 | 70.24% |
| 7 | TIMA | 240,000 | 0.26 % | 483,146 | 201.31% |
| 8 | HQ | 24,000 | 0.03 % | 108,746 | 453.11% |
| 9 | DDU | 11,760,000 | 12.66 % | 1,252,035 | 10.65% |
| | Total | 92,904,000 | 100 % | 68,101,527 | 73.30% |

Chart4: Comparison of each DU target set in IWP 2019 VS Actual 12-month Achievement (Jan-Dec 2019)



Some reasons are encountered during the performing period for some DUs that made them are unachievable the monthly clearance achievement against IWP target 2019 as the following points:

1. In December 2019, the planned deployment of demining tools is higher than Actual deployment of Demining tools.
2. DU#2, 3&DU6 have an actual tools less than planned deployment ones as following:
 - DU2 was shortfall of 3 TSC-7.
 - DU3 was shortfall of 1 SLD.
 - DU6 was shortfall of 1 BC-L.
3. 9 TSC, 1ESC, 1 CRWS and 1USD teams are reformed into 11 BLS teams by early August 2019.
4. Some teams moved to work at new projects.



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, three projects have been being continuing an implementation so called Intergraded Mine Clearance and Landmine Victim Assistance Phase-3 (IMV3) of DU2 from 1 November 2016 to 31 December 2019, USA-NPA(USA-23) project of DU5 from 1 March 2019 to 28 February 2020. Three projects are renewed as called CFR18 at DU1 and CFR19 at DU2 and DU3 start 01 January to 31 December 2019. However, the accumulative progress of all projects' achievement from the starts up to December 2019 are presenting as below table 11:

Table 11:Some Current Projects Executing up to December 2019

| Project Name | Project Duration | | Achievement | | | Project Target | Percentage |
|-------------------------------|------------------|-----------|---|--|---|----------------|------------|
| | Starting date | End date | Project progress up to last month in 2018 (m ²) | Project progress in Dec 2019 (m ²) | Project accumulated progress up to Dec 2019 (m ²) | | |
| CAC (IMCCD) | 16-Aug-19 | 15-Aug-20 | 100,130 | 15,790 | 115,920 | 200,000 | 57.96% |
| USA-NPA (USA22) | 1-Mar-19 | 28-Feb-20 | 18,161,995 | 2,650,983 | 20,812,978 | 23,128,858 | 89.99% |
| IMV3 for 3 rd year | 1-Nov-18 | 31-Dec-19 | 22,223,191 | 1,781,223 | 24,004,414 | 19,451,585 | 123.41% |
| CFR-BMC-18 | 1-Jan-19 | 31-Dec-19 | 3,427,405 | 580,446 | 4,007,851 | 2,263,015 | 177.10% |
| CFR-BTB-19 | 1-Jan-19 | 31-Dec-19 | 2,229,283 | 304,718 | 2,534,001 | 2,255,968 | 112.32% |
| CFR-PLN-20 | 1-Jan-19 | 31-Dec-19 | 1,965,187 | 305,045 | 2,270,232 | 1,724,027 | 131.68% |

5) Operational Factor Analysis:

Regarding the above demonstrated progress, some relevant reasons for the productivity achieved during the reporting period (by focusing on December 2019) areas below:

1. **Fragment Contamination (FC)**, in total **137,421** found over a cleared area of **6,463,356m²**, . This is **0.02** pieces per square meter. In percentage of technical terms, it is:
 - **90.19%** of land cleared had only light fragment contamination, in the operational areas of all DUs,
 - **9.81%** 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 (18,945 person-days):**
 - 86.77% of total field personnel were present at work
 - 1.55% of total field personnel were assigned to attend CMAC training courses,
 - 0.13% were on mission,
 - 4.72% were on taking annual leave,
 - 1.45% were on sick leave,
 - 0.21% were on compensation leave
 - 0.21% were on maternity leave



- 0.12% were on leave without pay
- 0.55% were on leave without permission,
- 3.19% were shortfall field personnel,
- 0.12% were absent ,
- 0.29% were on obligation leave (to work out of the project temporarily...etc),
- 0.70% were absent for other reasons

3. Working Hours, in total (18,136 hours-days):

- 77.69% of total times were working hours
- 0.00% of total times were the raining period,
- 12.35% of total times were the travelling hours,
- 1.68% 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,
- 0.13% 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,
- 8.08% of total times were other reasons and or moved BC to assist other development.

4. The Mine Detectors, in total (13,740 mine detector-days):

- 59.83% of all mine detectors (MD) were actually used for the operations.
- 40.17% 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 (526 mine detection dog-days):

- 90.30% of all mine detection dogs (MDD/EDD) were actually used for operations.
- 8.94% of mine detection dogs were assigned to attend refresher training at the CMAC TC and
- 0.38% of mine detection dogs were sick and had to be treated at the CMAC Training Center.
- 0.00% of lack mine detection dogs.

6) Other Reasons Affecting Operational Progress:

a) Adherence to work plan

- During the reporting period as of December 2019, 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 2019. 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 **100** minefields have been cleared in December 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 2019.
- 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 2019 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 2019.

6. Major Events:

1. On 2nd December 2019, H.E. Heng Ratana, Delegate of the royal Government in charge as Director General of CMAC, opened ceremony of vocational training for retired persons and had reminisce with DU1, 2 & DU3 key staff and mobile team leaders. This ceremony held at CDC, Chhnal Moan commune, Koas Krala district, Battambang province.
2. On 11th December 2019, Colombian trainees visited DU2, Kanhchang village, Sung commune, Samlout district, Battambang province. Their purpose of visit studied the operational clearance mine/ERW of Demining Machine No.06.
3. On 18-19th December 2019, Japanese ambassador to Cambodia accompanied by H.E visited the DU4 to observe the operational activity of JMAS project at Kampong Thom 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 December 2019.
- 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 2019.

Verified by:

Mong Sokunthearith
 Director of Planning & Operations

16 January 2019

Checked by:

Chhin Bunran
 Deputy Director of Planning & Operations

16 January 2019

Prepared by:

Tep Sakoeun
 Chief of Ops/Plan in charge of statistics

16 January 2019

Attachment:

- Annex A: CMAC Operational Progress Summary from 1992 up to December 2019
- Annex B: Monthly Progress Report by DU for December 2019
- Annex C: List of Completed Minefields and On-going as of December 2019 (all DUs)

CMAC OPERATIONAL SUMMARY PROGRESS REPORT

1992 UP TO December 2019

| Progress | Total Progress Achievement Up to Date | Other | | | | | | | EOD & MRE Tasks | | |
|-------------------------------|--|------------------------------|---------------|------------------|------------------|--------------|----------------|--------------------|--------------------|---------------|------------------|
| | | Ammunition Found & Destroyed | | | | | | | Requested | Responded | |
| | | AP mine | AT mine | Improvised Mines | UXO | AXO | Others | Fragments | | | Small Arms (kgs) |
| UNTAC Mar./92-Oct/93 | 5,479,850 | 19,433 | 132 | 0 | 96,486 | 0 | 0 | 22,085,279 | 0 | 0 | 0 |
| CMAC Nov/93-Dec/94 | 7,865,242 | 12,126 | 121 | 0 | 208,854 | 0 | 0 | 52,334,579 | 0 | 0 | 0 |
| CMAC 1995 | 10,150,014 | 22,115 | 93 | 0 | 47,123 | 0 | 0 | 23,670,218 | 0 | 0 | 0 |
| CMAC 1996 | 10,493,654 | 7,126 | 190 | 0 | 31,574 | 0 | 0 | 64,352,250 | 0 | 0 | 0 |
| CMAC 1997 | 15,565,421 | 17,035 | 266 | 0 | 32,767 | 0 | 0 | 12,110,064 | 0 | 0 | 0 |
| CMAC 1998 | 12,382,541 | 13,536 | 245 | 0 | 47,313 | 0 | 0 | 19,583,367 | 0 | 0 | 0 |
| CMAC 1999 | 10,797,705 | 14,322 | 649 | 0 | 67,610 | 0 | 0 | 17,480,591 | 0 | 0 | 0 |
| CMAC 2000 | 8,369,635 | 15,733 | 628 | 0 | 45,379 | 0 | 0 | 20,894,845 | 0 | 0 | 0 |
| CMAC 2001 | 9,637,455 | 16,916 | 465 | 0 | 77,034 | 0 | 0 | 14,069,870 | 0 | 0 | 0 |
| CMAC 2002 | 11,582,239 | 32,688 | 493 | 0 | 61,840 | 0 | 0 | 19,767,069 | 0 | 0 | 0 |
| CMAC 2003 | 9,708,686 | 22,160 | 504 | 0 | 76,671 | 0 | 0 | 21,032,570 | 0 | 0 | 0 |
| CMAC 2004 | 11,157,336 | 43,635 | 936 | 0 | 106,360 | 0 | 0 | 20,804,831 | 4,500 | 0 | 0 |
| CMAC 2005 | 22,086,486 | 74,165 | 851 | 0 | 128,865 | 0 | 0 | 23,866,907 | 21,800 | 0 | 0 |
| CMAC 2006 | 26,772,625 | 35,745 | 1,000 | 61 | 113,296 | | | 26,109,554 | 5,236 | 0 | 9,379 |
| CMAC 2007 | 27,666,058 | 32,245 | 587 | 273 | 114,755 | | | 24,732,667 | 6,706 | | 9,334 |
| CMAC 2008 | 27,653,389 | 25,543 | 497 | 166 | 114,101 | | | 19,874,891 | 7,001 | | 9,478 |
| CMAC 2009 | 37,597,125 | 18,906 | 550 | 257 | 135,661 | 0 | 0 | 14,536,442 | 16,177 | 6,800 | 11,537 |
| CMAC 2010 | 75,857,186 | 18,271 | 406 | 310 | 135,451 | 0 | 130,675 | 12,167,273 | 9,955 | 13,392 | 12,443 |
| CMAC 2011 | 51,945,961 | 14,573 | 406 | 229 | 83,673 | 5,531 | 3 | 6,277,154 | 5,752 | 11,513 | 9,038 |
| CMAC 2012 | 76,748,132 | 16,106 | 558 | 277 | 96,439 | 1,023 | 19 | 7,001,874 | 4,816 | 12,407 | 9,329 |
| CMAC 2013 | 63,866,530 | 11,249 | 284 | 272 | 111,428 | 43 | 0 | 4,438,878 | 4,988 | 14,028 | 12,876 |
| CMAC 2014 | 92,341,445 | 13,908 | 346 | 180 | 98,299 | 814 | 0 | 4,473,221 | 2,814 | 11,066 | 10,486 |
| CMAC 2015 | 102,576,537 | 7,866 | 185 | 24 | 51,345 | 111 | 0 | 3,304,969 | 501 | 4,643 | 4,643 |
| CMAC 2016 | 86,964,505 | 4,275 | 128 | 25 | 30,005 | 31 | 0 | 1,560,044 | 527 | 2,598 | 2,618 |
| CMAC 2017 | 104,052,429 | 5,277 | 108 | 109 | 39,739 | 20 | 446 | 1,786,155 | 1,852 | 3,977 | 3,974 |
| CMAC 2018 | 88,603,198 | 7,934 | 73 | 108 | 37,385 | 3 | 110 | 1,862,413 | 2,705 | 3,678 | 3,681 |
| CMAC 2019 | 68,101,527 | 5,524 | 77 | 15 | 33,074 | 0 | 14 | 1,314,596 | 1,401 | 3,251 | 3,251 |
| Jan-2019 | 6,833,413 | 489 | 1 | 5 | 2,901 | 0 | 0 | 121,620 | 3 | 357 | 357 |
| Feb-2019 | 7,083,775 | 576 | 13 | 7 | 2,743 | 0 | 0 | 108,695 | 31 | 267 | 267 |
| Mar-2019 | 5,540,602 | 411 | 14 | 2 | 2,342 | 0 | 0 | 90,964 | 30 | 269 | 269 |
| Apr-2019 | 4,422,750 | 307 | 3 | 0 | 1,580 | 0 | 0 | 74,298 | 5 | 203 | 203 |
| May-2019 | 4,908,132 | 353 | | | 2,938 | | | 90,034 | 122 | 267 | 267 |
| Jun-2019 | 5,558,058 | 443 | 15 | 1 | 2,540 | | | 104,119 | 12 | 263 | 263 |
| Jul-2019 | 6,206,497 | 526 | 15 | | 3,478 | | | 119,955 | 79 | 332 | 332 |
| Aug-2019 | 5,677,055 | 618 | 3 | | 2,996 | | 14 | 123,954 | 165 | 318 | 318 |
| Sep-2019 | 4,483,500 | 318 | 4 | | 2,494 | | | 92,169 | | 210 | 210 |
| Oct-2019 | 5,596,016 | 480 | 1 | 0 | 2,602 | | | 118,694 | 56 | 246 | 246 |
| Nov-2019 | 5,328,373 | 447 | 3 | | 2,023 | | | 132,673 | 753 | 206 | 206 |
| Dec-2019 | 6,463,356 | 556 | 5 | 0 | 4,437 | | | 137,421 | 145 | 313 | 313 |
| Grand Total up to date | 1,076,022,911 | 528,412 | 10,778 | 2,306 | 2,222,527 | 7,576 | 131,267 | 461,492,571 | 96,729 | 87,353 | 112,067 |

MONTHLY OPERATIONAL PROGRESS SUMMARY REPORT BY DEMINING UNIT

As of Dec-2019 to Dec-2019

| Demining Unit | No of Phoenix & Teams | Operational Achievements | | | | | | | | | | | | | | | | | | | | EOD & MRE Tasks Responised | | | | | | | | | | | | | | | | |
|-------------------------------------|---------------------------------|---------------------------------|-----------------------------------|--|---------------------------------------|--------------------------|---------------|----------------|------------------|----------------------|-------------------------------|------------------------------|--|-----------------------|------------------------------|-------------------------------|------------------------------------|--|-------------------------------|------------------------------|---------------------|----------------------------|--------------|------------------|-----|--|----------------|------------|-----------|---------------------|--|------------|------------|--|--|--|--|--|
| | | Land Release | | | | | | | | Other Area Clearance | | | QA/QC | Other | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Non-Technical Survey(NTS) | | Technical Survey (TS) | | | | | Full Clearance | | Safety Site (m ²) | Spot Check (m ²) | Partial Clearance or Marking (m ²) | Size(m ²) | Brush Cutter | | Survey & Marking | | | Ammunition Found & Destroyed | | | | | | | | | | | | | | | | | | |
| | | | | Full Coverage Inspection (m ²) | Targeted Inspection (m ²) | Systematic Investigation | | | | | | | | | Mined Area (m ²) | Battle Area (m ²) | Cutting the Brush(m ²) | Soil Excavation the mines(m ²) | Survey Area (m ²) | Number of minefield marked | Line of marking (m) | AP | AT | Improvised Mines | UXO | | | Others | Fragments | Small Caliber (ggs) | | | | | | | | |
| Mine Targeted Area(m ²) | Bracting line (m ²) | Inspected Box (m ²) | M Inspected Box (m ²) | | | Boinc | Cluster | Other UXO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DDU | 1 | | | | | | | | | 40,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DU1 | 18 | 39,788 | 232,766 | | | | | 546,984 | 2,820 | | 116,246 | 209,565 | | 15,152 | 2 | 1,391 | 106 | 1 | | | | | | | | | | | | | | | | | | | | |
| DU2 | 29 | | 638,016 | | | | | 1,373,190 | | 1,735 | | 410,763 | 247 | 2,413,787 | 40 | | 269 | 2 | | | | | | | | | | | | | | | | | | | | |
| DU3 | 11 | 19,308 | | | | | | 393,835 | | | 13,495 | 48,257 | | 1,593,463 | 15 | | 75 | | | | | | | | | | | | | | | | | | | | | |
| DU4 | 9 | | 42,974 | | | | | 295,692 | 2,000 | | 30,807 | 154,919 | | | | | 33 | 1 | | 2 | 5 | | | | | | | | | | | | | | | | | |
| DU5 | 33 | | | | | | 79,516 | 110,849 | | 2,454,661 | | 5,957 | 9,515 | 13 | | 1,215,737 | 314 | 133,884 | 26 | | 3 | 659 | 2,534 | | | | | | | | | | | | | | | |
| DU6 | 5 | | | | | | | 174,144 | | | | 7,982 | | 44,346 | | | | | 47 | 1 | | | | | | | | | | | | | | | | | | |
| HQ | 2 | | | | | | | | | | | 1,139 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total: | | 59,096 | 913,756 | | | | 79,516 | 110,849 | 2,783,845 | 2,454,661 | 4,820 | 56,813 | 170,063 | 867,863 | 247 | 5,238,139 | 321 | 135,275 | 556 | 5 | 5 | 664 | 3,768 | | | | 137,421 | 145 | | | | 313 | 313 | | | | | |

List of Tasks Completed by End of Reporting in January to December 2019

| DUUs | S/N | Task ID | Status | S/N | Task ID | Status |
|------|-----|----------------|-----------|-----|----------------|-----------|
| DU1 | 1 | BS/CMAA/08928 | Completed | 16 | BS/CMAA/22493 | Completed |
| | 2 | BS/CMAA/08929 | Completed | 17 | BS/CMAA/22809 | Completed |
| | 3 | BS/CMAA/10390 | Completed | 18 | BS/CMAA/22816 | Completed |
| | 4 | BS/CMAA/10508 | Completed | 19 | BS/CMAA/22871A | Completed |
| | 5 | BS/CMAA/21597A | Completed | 20 | BS/CMAA/22871B | Completed |
| | 6 | BS/CMAA/21597B | Completed | 21 | BS/CMAA/22874 | Completed |
| | 7 | BS/CMAA/21699 | Completed | 22 | BS/CMAA/22875 | Completed |
| | 8 | BS/CMAA/21725 | Completed | 23 | BS/CMAA/22876 | Completed |
| | 9 | BS/CMAA/21736 | Completed | 24 | BS/CMAA/22894 | Completed |
| | 10 | BS/CMAA/21742 | Completed | 25 | BS/CMAA/22895 | Completed |
| | 11 | BS/CMAA/21752 | Completed | 26 | BS/CMAA/23125A | Completed |
| | 12 | BS/CMAA/22174 | Completed | 27 | BS/CMAA/23354 | Completed |
| | 13 | BS/CMAA/22175 | Completed | 28 | BS/CMAA/23558 | Completed |
| | 14 | BS/CMAA/22177 | Completed | 29 | BS/CMAA/23855 | Completed |
| | 15 | BS/CMAA/22178 | Completed | 30 | BS/CMAA/23859 | Completed |
| DU2 | 1 | BS/CMAA/06881 | Completed | 15 | BS/CMAA/01235 | Completed |
| | 2 | BS/CMAA/07265 | Completed | 16 | BS/CMAA/09490 | Completed |
| | 3 | BS/CMAA/09184 | Completed | 17 | BS/CMAA/01411 | Completed |
| | 4 | BS/CMAA/09198 | Completed | 18 | BS/CMAA/01706 | Completed |
| | 5 | BS/CMAA/09203 | Completed | 19 | BS/CMAA/02827 | Completed |
| | 6 | BS/CMAA/09518 | Completed | 20 | BS/CMAA/01407 | Completed |
| | 7 | BS/CMAA/03440 | Completed | 21 | BS/CMAA/09014 | Completed |
| | 8 | BS/CMAA/09565 | Completed | 22 | BS/CMAA/10851 | Completed |
| | 9 | BS/CMAA/09566 | Completed | 23 | BS/CMAA/24750 | Completed |
| | 10 | BS/CMAA/09575 | Completed | 24 | BS/CMAA/30018 | Completed |
| | 11 | BS/CMAA/10282 | Completed | 25 | BS/CMAA/30474B | Completed |
| | 12 | BS/CMAA/09542 | Completed | 26 | BS/CMAA/34124 | Completed |
| | 13 | BS/CMAA/09178A | Completed | 27 | BS/CMAA/00394 | Completed |
| | 14 | BS/CMAA/00676A | Completed | 28 | BS/CMAA/00506 | Completed |
| DU3 | 1 | BS/CMAA/09386 | Completed | 6 | BS/CMAA/08861 | Completed |
| | 2 | BS/CMAA/00906B | Completed | 7 | BS/CMAA/02912G | Completed |
| | 3 | BS/CMAA/10444 | Completed | 8 | BS/CMAA/34132 | Completed |
| | 4 | BS/CMAA/02475B | Completed | 9 | BS/CMAA/08873A | Completed |
| | 5 | BS/CMAA/02966 | Completed | 10 | BS/CMAA/02963C | Completed |
| DU4 | 1 | BS/CMAA/03969 | Completed | 4 | BS/CMAA/31189A | Completed |
| | 2 | BS/CMAA/31225A | Completed | 5 | BS/CMAA/31182 | Completed |
| | 3 | BS/CMAA/31265A | Completed | 6 | BS/CMAA/10499 | Completed |
| DU5 | 1 | BS/CMAA/09453A | Completed | 12 | BS/CMAA/07412 | Completed |
| | 2 | BS/CMAA/09454A | Completed | 13 | BS/CMAA/07504 | Completed |
| | 3 | BS/CMAA/09329A | Completed | 14 | BS/CMAA/07505 | Completed |
| | 4 | BS/CMAA/05850 | Completed | 15 | BS/CMAA/07362B | Completed |
| | 5 | BS/CMAA/07297B | Completed | 26 | BS/CMAA/07894 | Completed |

| DU | S/N | Task ID | Status | S/N | Task ID | Status |
|-----|-----|---------------|-----------|-----|----------------|-----------|
| | 6 | BS/CMAA/08395 | Completed | 17 | BS/CMAA/07381 | Completed |
| | 7 | BS/CMAA/08762 | Completed | 18 | BS/CMAA/07418B | Completed |
| | 8 | BS/CMAA/09436 | Completed | 19 | BS/CMAA/07409A | Completed |
| | 9 | BS/CMAA/09994 | Completed | 20 | BS/CMAA/07378A | Completed |
| | 10 | BS/CMAA/07359 | Completed | 21 | BS/CMAA/08252 | Completed |
| | 11 | BS/CMAA/09829 | Completed | 22 | BS/CMAA/08514 | Completed |
| | | | | | | |
| DU6 | 1 | BS/CMAA/03505 | Completed | 3 | BS/CMAA/03495A | Completed |
| | 2 | BS/CMAA/02153 | Completed | 4 | BS/CMAA/07278 | Completed |


Total of Completed mine/UXO fields= 100 Fields

EASTERN PROVINCE BASELINE SURVEY PROJECT REPORT

August 2019-December 2020

Monthly Progress summary

| Description | Aug-19 | Sep-19 | Oct-19 | Nov-19 | Dec-19 | TOTAL |
|-----------------------------|-----------|------------|------------|------------|------------|-------------|
| Village Visited | 44 | 121 | 122 | 99 | 166 | 552 |
| New BLS polygons discovered | 31 | 140 | 277 | 174 | 298 | 920 |
| Total New BLS Size (m2) | 1,851,812 | 14,292,078 | 46,640,338 | 33,502,318 | 37,427,220 | 133,713,766 |



Progress summary

| Description | Oct 2019 | | | Nov 2019 | | | Dec 2019 | | | Total | | |
|------------------------------|----------|------------|-------------|----------|-----------|-------------|----------|-----------|-------------|-------|------------|--------------|
| | Poly | SQM | SQM release | Poly | SQM | SQM release | Poly | SQM | SQM release | Poly | SQM | SQM released |
| BLS polygons visited | 124 | 11,217,195 | | 70 | 3,192,966 | | 68 | 3,791,131 | | 262 | 18,201,292 | |
| BLS polygons fully released | 5 | 105,193 | 105,193 | 7 | 177,898 | 177,898 | 2 | 59,096 | 59,096 | 14 | 342,187 | 342,187 |
| BLS polygons partly released | 9 | 1,576,145 | 346,242 | 4 | 287,789 | 107,588 | 0 | 0 | 0 | 13 | 1,863,934 | 453,830 |
| BLS polygons not released | 110 | 9,535,857 | | 59 | 2,727,279 | | 66 | 3,732,035 | | 235 | 15,995,171 | |
| New BLS polygons discovered | 8 | 728,480 | | 13 | 1,355,337 | | 57 | 4,022,402 | | 78 | 6,106,219 | |
| Total SQM released | | | 451,435 | | | 285,486 | | | 59,096 | | | 796,017 |