



## CAMBODIAN MINE ACTION CENTRE



## Six-Month Achievement Report Period: 01 January -30 June 2014

**1. General Situation**

Landmine and Explosive Remnants of War (ERW) problems in Cambodia occur across the country and present a constant risk and area real barrier to development in both town and country, especially for agricultural activity in rural areas. Most of the infrastructure and resources that were broken during the war, need to be restored and strengthened to assist in developing all parts of the agriculture and natural resource sector.

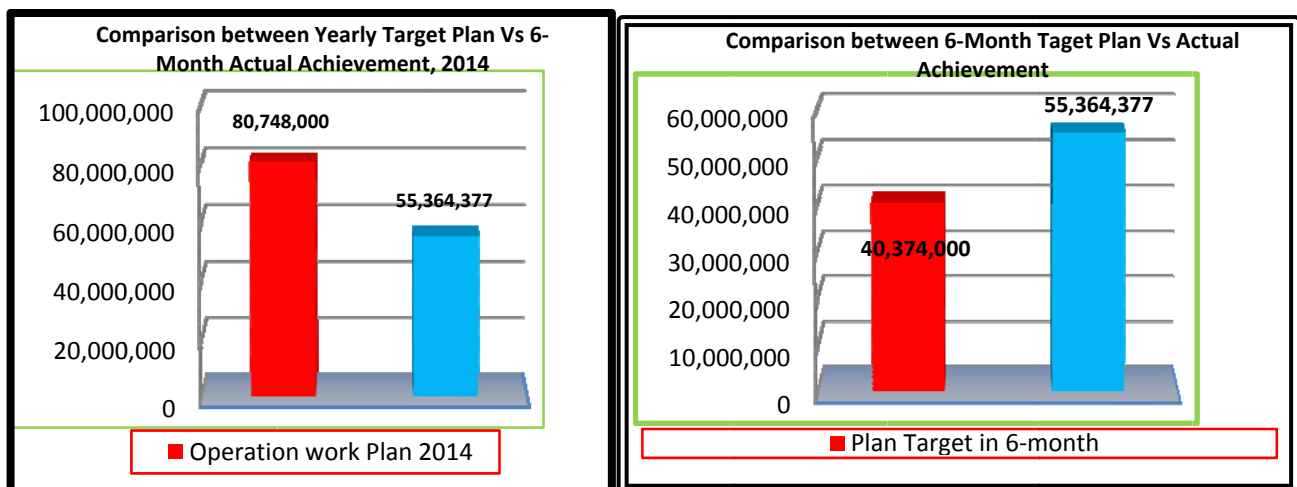
CMAC, as the national humanitarian demining operator, is working hard on this matter in order to save lives and support development of the Cambodian people. Today, CMAC continues to undertake a number of bilateral and counterpart projects in order to support its demining management plan, as set out in the annual integrated work plan 2014, as well as in CMAC’s 5-year strategic work plan from 2010-2014.

Within the Integrated Work Plan (IWP) 2014, the total clearance target set for this year (80,748,000m<sup>2</sup>) is slightly higher than the total target set in 2013 (80,721,788m<sup>2</sup>). This is due to an increase of ERW responses to the commercial task of constructing Hydro Electricity Power Lower Sesan II in Steung Treng province. Otherwise, the land release methodologies and technologies are applied over the rest of the country in both minefield and battlefield area clearance (BAC) in all demining units.

In addition to the demining operations, CMAC has been putting effort into improving its productivity, quality and management by implementing the ISO Quality Management System. This is in order to meet customer requirements and to improve satisfaction. In early June 2010, the department of Planning and Operations received a renewal of their ISO 9001: 2008 Certificate for another 3 years, from February 5<sup>th</sup> 2013 to May 11<sup>th</sup> 2016 by BM TRADA Company stationed in Malaysia.

**2. Summary of Progress**

In the first six-months from January to June 2014, a total of 55,364,377m<sup>2</sup> has been released throughout the country. This includes 32,728,591m<sup>2</sup> of minefield area, 22,350,937m<sup>2</sup> of UXO field area (BAC area), and 284,849m<sup>2</sup> of safety preparation, survey and spot check areas (other releases), which is 137.12% of the 6-month target (40,374,000m<sup>2</sup>) for 2014 and equal to 68.56% of the yearly target set (80,748,000m<sup>2</sup>) in 2014, and it is expected to achieve up to 125% to 135% by the end of the year, according to the Integrated Work Plan 2014. Moreover, during the release of contaminated land there were 7,194 AP mines (including 138 improvised mines), 160 Anti Tank mines, and 51,994 ERW found and destroyed safely. The operation summary progress report is in ANNEX-A. Chart 1: Analysis of Actual Progress Achievement in 2014



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**3. Deployment Tools (assets) by Project:**

To achieve the overall targets as mentioned above, CMAC deployed its demining resources (assets) throughout the country as shown in Table 1:

**Overview of the Committed Assets by Project**

**Table 1:**

S/N	Project's name	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Remarks
1	CFR-DU1	2MPL, 3BC, 1TSC, 1SLD, 4CBM	2MPL, 3BC, 1TSC, 1SLD, 4CBM	2MPL, 3BC, 1TSC, 1SLD, 4CBM	2MPL, 2BC, 1TSC, 1SLD, 4CBM	2MPL, 4BC, 3TSC, 2SLD, 1EOD, 2CBM	2MPL, 4BC, 3TSC, 2SLD, 1EOD, 2CBM	
2	SPF2	1TSC, 4PFT, 1EOD, 1CBM(PC), project mgt team	1TSC, 4PFT, 1EOD, 1CBM(PC), project mgt team	1TSC, 4PFT, 1EOD, 1CBM(PC), project mgt team	4PFT, 1EOD, 1CBM(PC), project mgt team	4PFT, 1EOD, 1CBM(PC), project mgt team	Project Mgt only	
3	Adopt a minefield (AAM)in DU1	-	-	1PFT	1PFT, 1TSC	-	-	2-month project period only
4	CFR-DU2	3MPL, 4BC, 4TSC, 2SLD	3MPL, 4BC, 2TSC, 1SLD	3MPL, 4BC, 2TSC, 1SLD	3MPL, 4BC, 2TSC, 1SLD	3MPL, 8BC, 9TSC, 3SLD, 1EOD, 2CBM	3MPL, 8BC, 9TSC, 3SLD, 1EOD, 2CBM	
5	CPF9-DU2	1MPL, 4TSC, 2BC, 1SLD, 2EOD, 14CBM, office staff	1MPL, 4TSC, 2BC, 1SLD, 2EOD, 14CBM, office staff	1MPL, 4TSC, 2BC, 1SLD, 2EOD, 14CBM, office staff	1MPL, 4TSC, 2BC, 1SLD, 2EOD, 14CBM, office staff	1MPL, 2TSC, 2BC, 1SLD, 2EOD, 14CBM, office staff	1MPL, 2TSC, 2BC, 1SLD, 2EOD, 14CBM, office staff	2TSC were moved out to CFR7-DU2 from 1 May 2014
6	CAC(IMCCD)	1TSC	1TSC	1TSC	1TSC	1TSC	1TSC	
7	JMAS-EOD &CBURR (DU2, DU4, TC)	6EOD, 18CBURR, 2EOD Supervisors	6EOD, 18CBURR, 2EOD Supervisors	6EOD, 18CBURR, 2EOD Supervisors	6EOD, 18CBURR, 2EOD Supervisors	6EOD, 18CBURR, 2EOD Supervisors	6EOD, 18CBURR, 2EOD Supervisors	
8	MAG-DU2	3SLD	3SLD	3SLD	3SLD	3SLD	3SLD	
9	PBD2-DU2	2MPL, 8DM, 1BC, 4TSC, 2LLD, 2EOD, 2CBM, project staff	2MPL, 8DM, 1BC, 4TSC, 2LLD, 2EOD, 2CBM, project staff	2MPL, 8DM, 1BC, 4TSC, 2LLD, 2EOD, 2CBM, project staff	2MPL, 8DM, 1BC, 4TSC, 2LLD, 2EOD, 2CBM, project staff	2MPL, 8DM, 1BC, 4TSC, 2LLD, 2EOD, 2CBM, project staff	2MPL, 8DM, 1BC, 4TSC, 2LLD, 2EOD, 2CBM, project staff	3-year project
10	SVC (IMC)- DU2	2MPL, 1DM, 1BC	2MPL, 1DM, 1BC	2MPL, 1DM, 1BC	2MPL, 1DM, 1BC	2MPL, 1DM, 1BC	2MPL, 1DM, 1BC	
11	SVC (Infrastructure), DU2	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 Apr-14 to 31 Mar-15
12	CPF8-DU4	1MPL, 3TSC, 2BC, 1SLD,	1MPL, 3TSC, 2BC, 1SLD,	1MPL, 3TSC, 2BC, 1SLD,	1MPL, 3TSC, 2BC, 1SLD,	1MPL, 3TSC, 2BC, 1SLD,	1MPL, 3TSC, 2BC, 1SLD,	

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S/N	Project's name	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Remarks
		2EOD, 5CBM, office staff	2EOD, 5CBM, office staff	2EOD, 5CBM, office staff	2EOD, 5CBM, office staff	2EOD, 5CBM, office staff	2EOD, 5CBM, office staff	
13	Royal Government of Cambodia (RGC5)_Kheng Sameth's Engineering forces	1BC	1BC	1BC	1BC	1BC	1BC	
14	USA-DU5 & HQ	11EOD, 8BAV, 2EOD Supervisors, project staff	11EOD, 8BAV, 2EOD Supervisors, project staff	11EOD, 8BAV, 2EOD Supervisors, project staff	Stand down	14BAC, 5EOD, 4EDD, project staff	14BAC, 5EOD, 4EDD, project staff	
15	NPA-MDD TC & DU5	2EDD, MDD Instructors	2EDD, MDD Instructors	2EDD, MDD Instructors	2EDD, MDD Instructors	MDD Instructors	MDD Instructors	
16	DU6-APOPO (Germany)	8MPL, 6TSC, 4EOD, 2BC, 3CBM, 1EOD Supervisor,	8MPL, 6TSC, 4EOD, 2BC, 3CBM, 1EOD Supervisor,	8MPL, 6TSC, 4EOD, 2BC, 3CBM, 1EOD Supervisor,	8MPL, 6TSC, 4EOD, 2BC, 3CBM, 1EOD Supervisor,	8MPL, 6TSC, 4EOD, 2BC, 3CBM, 1EOD Supervisor,	8MPL, 6TSC, 4EOD, 2BC, 3CBM, 1EOD Supervisor,	
17	RGC6-HQ	2EOD, 2 Supervisors	2EOD, 2 Supervisors	2EOD, 2 Supervisors	-	-	-	
18	CMA14-HQ	-	-	-	3EOD, 2 Supervisors	3EOD, 2 Supervisors	3EOD, 2 Supervisors	
19	PPSEZ-HQ	1BAC	1BAC	1BAC, 1BAV	1BAC, 1BAV	1BAC, 1BAV	1BAC, 1BAV	
20	JMEC-HQ	1BAV	1BAV	-	-	-	-	
21	CMA14-TC	1IED dog	1IED dog	1IED dog	1IED dog	1IED dog	1IED dog	
22	Hydro Electricity SESAN II	1MPL, 4BAT, 1BAV, 4BC, 1PFT, 3TSC	1MPL, 4BAT, 1BAV, 5BC, 1PFT, 5TSC	1MPL, 4BAT, 1BAV, 5BC, 1PFT, 5TSC	1MPL, 4BAT, 1BAV, 5BC, 1PFT, 5TSC	1MPL, 3BAT,1BC,	1MPL, 3BAT,1BC, 4PFT, 1EOD	

**Note:**

- 1) In January 2014, the Clearing for Results project in DU1 (called CFR5), which had run from February 2013, was due to end but the project was extended for 3-months more to April 30<sup>th</sup> 2014, keeping the same demining resources.
- 2) The Clearing for Results in DU1 (called CFR7) started its implementation on May 1<sup>st</sup>, 2014 for a 9-month period to January 31<sup>st</sup>, 2015. The demining resources (assets) were changed and deployed as shown in Table 1.
- 3) SPF2 project at DU1 ended on 31 May 2014 for field teams and for the project management team was ended on 30 June 2014.
- 4) In January 2014, the Clearing for Results project in DU2 (called CFR6), which had run from February 2013 was due to end but was extended for 3-months more to April 30<sup>th</sup>, 2014 by moving out 2TSC and 1SLD to other projects in CMAC.
- 5) The Clearing for Results project in DU2 (called CFR8) which started on May 1<sup>st</sup>, 2014 for a 9-month period to January 31<sup>st</sup>, 2015 by adding more demining resources (assets) into this project.
- 6) The Counter Part Project (Phase 9) in DU2 extends from 17 December 2013 to 16 December 2014.
- 7) The CAC (IMCCD) project is from 16 Aug 2013 to 15 Aug 2014.



- 8) The USA project started from 1 October 2013 and continued to 31 March 2014 at DU5 and CMAC Headquarters and ended in April 2014.
- 9) The USA-NPA (USN) project was started on 1 May 2014 and will continue to 30 September 2015 at DU5.

#### 4. Allocation of Demining Assets

From January to June 2014, CMAC Demining Assets were assigned to the various CMAC's Demining Units (DU) and deployed to support many landmine/ERW high priority clearance tasks selected through the national planning mechanism, often refers to as MAPU process, a participatory and bottom up approach method to mine action planning; and urgent humanitarian and development supported tasks requested by local authorities and mine/ERW affected communities. The following table 2 shows the demining tools (asset) by the Demining Unit.

**Table 2:**

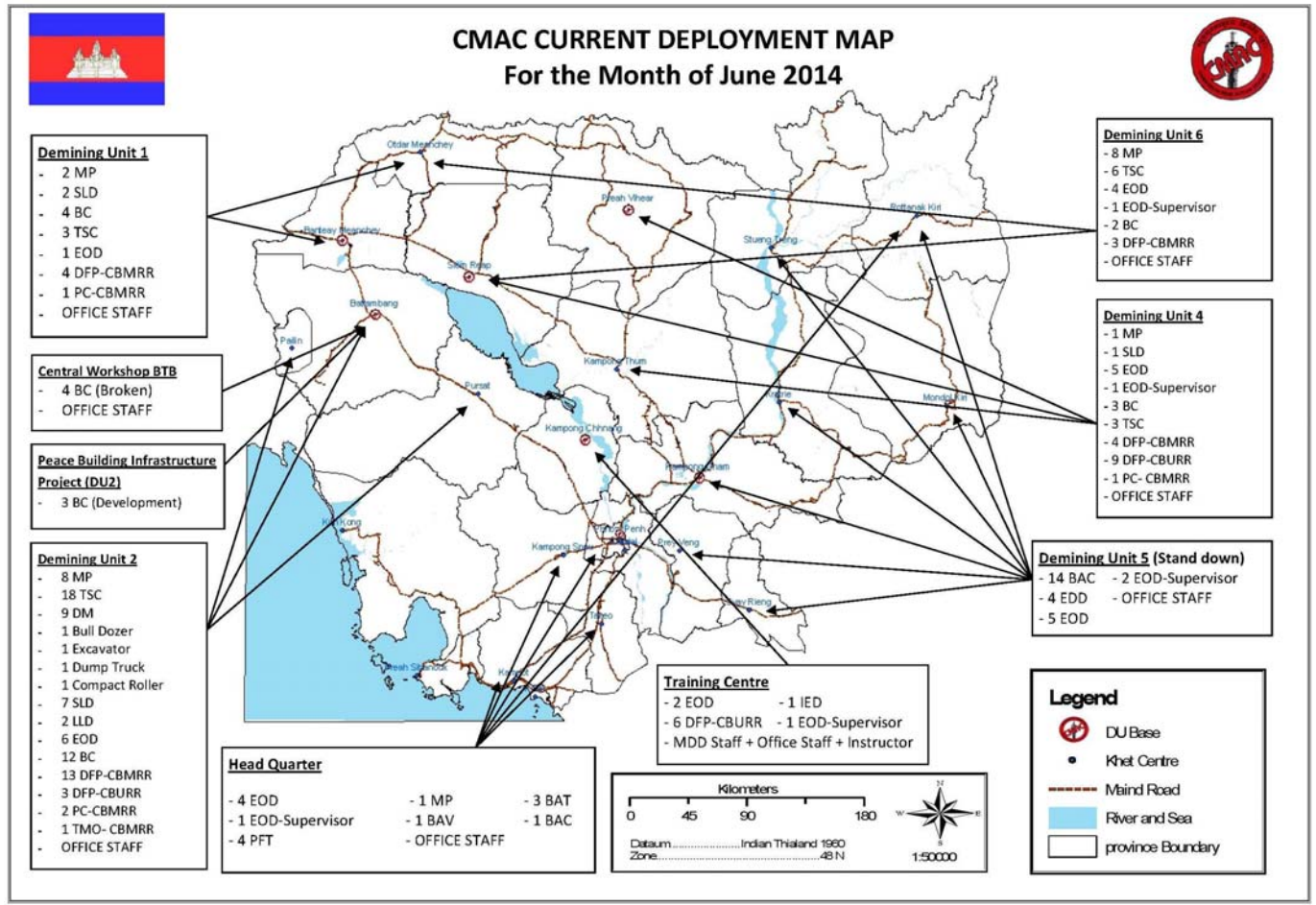
Demining Unit	Actual Demining Assets (Tools)																
	MP	EOD	PFT	TSC-(5 staff)	TSC-(7 staff)	SLD (4 dogs)	SLD (2 dogs)	LLD	EDD	DM	BC	BAV	BAC	BAT	CBMRR	CBURR	IED-Dog
DU#1(BMC)	2	1	4	-	3	-	2	-	-	-	4	-	-	-	5	-	-
DU#2(BTB, PLN, PST)	8	6	-	1	15	3	4	2	-	9	12	-	-	-	18	3	-
DU#4 (Kg. Thom, PVH, OMC)	1	5	-	-	3	-	1	-	-	-	3	-	-	-	5	9	-
DU#5 (Eastern provinces)	-	5	-	-	-	-	-	-	4	-	-	-	14	-	-	-	-
DU#6 (SRP & OMC)	8	4	-	6	-	-	-	-	-	-	2	-	-	-	3	-	-
CMAC HQ (Phnom Penh)	1	4	-	-	-	-	-	-	-	-	-	1	1	3	-	-	-
CMAC Training Centre (Kampong Chhnang)	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	6	1
Total teams deployed	20	27	4	7	21	3	7	2	4	9	21	1	15	3	31	18	1

**Note:**

1. 4 Path Finding Teams (PFT), 1EOD and 1PC (CBMRR) under the project of the Swedish Postcode Foundation Phase 2 (SPF2) at DU1 were taken off the project in 31 May 2014. 4PFT and 1EOD were moved to the Hydro Electricity Sesan II project from 14 June 2014, and 1PC (CBMRR) was changed to CMA14 from 1 June 2014 in DU1.
2. 1SLD and 1BC under CFR-DU1 were stood down in January 2014 and then another BC in CFR was stood down in April 2014. These 1SLD and 2BC were redeployed on 1<sup>st</sup> May 2014 for the Clearing for Results project (CFR-phase 7) at DU1.

The below figure is the CMAC deployment map as of June 2014.

Figure 1:



a. Teams deployed Vs Staff in Six-month

Table 3:

Demining Tool/Asset	No. of Teams	No. of Staff per Team	Total staff in 6-month	Actual Staff		Different	Remarks
				Male	Female		
MPL	17	27	2,754	2,620	55	79	
MPL	2	26	312	222	90	-	
BC	17	9	918	838	24	56	
BC	3	2	36	36	-	-	
DM	4	3	72	72	-	-	
DM	5	22	660	624	36	-	
SLD	11	10	660	531	32	97	
LLD	2	10	120	96	24	-	
EDD	4	5	120	108	12	-	

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Demining Tool/Asset	No. of Teams	No. of Staff per Team	Total staff in 6-month	Actual Staff		Different	Remarks
				Male	Female		
TSC	7	5	210	182	18	10	
TSC	22	7	924	794	-	130	
BAV	4	7	168	84	-	84	
BAV	5	5	150	75	-	75	
BAC	15	5	450	417	18	15	
BAT	4	16	384	72	-	312	
PFT	5	5	150	105	5	40	
EOD	30	3	540	492	-	48	
CBMRR	31	1	186	168	18	-	
CBURR	18	1	108	108	-	-	
IED-Dog	1	4	24	18	6	-	
<b>Total</b>			<b>9,690</b>	<b>7,350</b>	<b>294</b>	<b>423</b>	

**Note:**

- 79 deminers from 2 mobile platoons under Counter Part project in DU2 and DU4 were moved out to support CFR DU1 and DU2 from May to June 2014.
- 56 deminers from 4 Brush Cutter teams under Counter Part project in DU2 and DU4 were moved out to support CFR DU1 and DU2 from May to June 2014.
- 97 deminers/Close markers from SLD#10, SLD#13 (former CFR DU1 and CFR DU2 project) were reformed to 2EDD teams and deployed in DU5 from May to June 2014.
- TSC#08 was reformed to BAC#15 and deployed to work in DU5 from May to June 2014 due to 10 staff being lost from actual deployment.
- 312 members from 4BAT teams on the SESAN II project were lost from January to June 2014.
- In total, 423 team days were lost in the 6-month period from January to June 2014.

**b. Planned and actual operational team days in the six-month period**

**Table 4:**

Tools/Assets	No. of Tools	Operational Days in 6-month		Different	Remarks
		Planned	Actual		
MPL	19	2,109	2,096	13	
BC	20	2,220	2,108	112	
DM	9	999	999	0	
SLD	11	1,221	1,030	191	
LLD	2	222	222	0	
EDD	4	444	296	148	
TSC	29	3,219	3,014	205	
BAV	9	999	579	420	
BAC	15	1,665	587	1,078	
BAT	4	444	333	111	
PFT	5	555	401	154	
EOD	30	3,330	2,769	561	

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Tools/Assets	No. of Tools	Operational Days in 6-month		Different	Remarks
		Planned	Actual		
CBMRR	31	3,441	3,441	0	
CBURR	18	1,998	1,998	0	
IED-Dog	1	111	111	0	
<b>Total</b>	<b>207</b>	<b>22,977</b>	<b>19,984</b>	<b>2,993</b>	

**Note:**

- On average, each mobile platoon and team lost at least 14 working days due to: refresher training on site; movement to new minefields; reception for delegation or guests who visit the minefields; postponing operations due to the fund constraints, especially the USA fund.

**5. Activities Output**

**a) Completion Minefield and On-going:**

During the reporting period, all Demining Units completed at least 357 minefields and 74 minefields are on-going. All completed minefields have been handed over to the local authorities and communities for productive purposes, as per their requests. The **Annex-B** attached shows the detail list of completed minefields and those on-going. Among those minefields cleared, it shows the number of beneficiaries as below table 5:

**b) Number of Minefield and Socio Beneficiaries in 6-month.**

CMAC mine action activities contribute significantly to the country in terms of mine/UXO casualty reduction. They also contribute to the enhancement of livelihood, socio-economic and infrastructure development for the affected communities post-clearance.

Similar to previous years, socio-economic benefits gained in the first six-months of 2014 were remarkable. In total, landmine and ERW clearance in the first six-month 2014 benefited 1,248 families directly (direct beneficiaries), 23,614 families indirectly (indirect beneficiaries) as well as approximately 750 students.

A large portion of the land cleared is used to support development, resettlement and agriculture activities, and a smaller portion goes to humanitarian and emergency purposes. There are 9 categories of land use, after land clearance, in the first six-months of 2014, and the cleared land allocation in square meters and percentage by category is shown in Table 5.

**Table: 5**

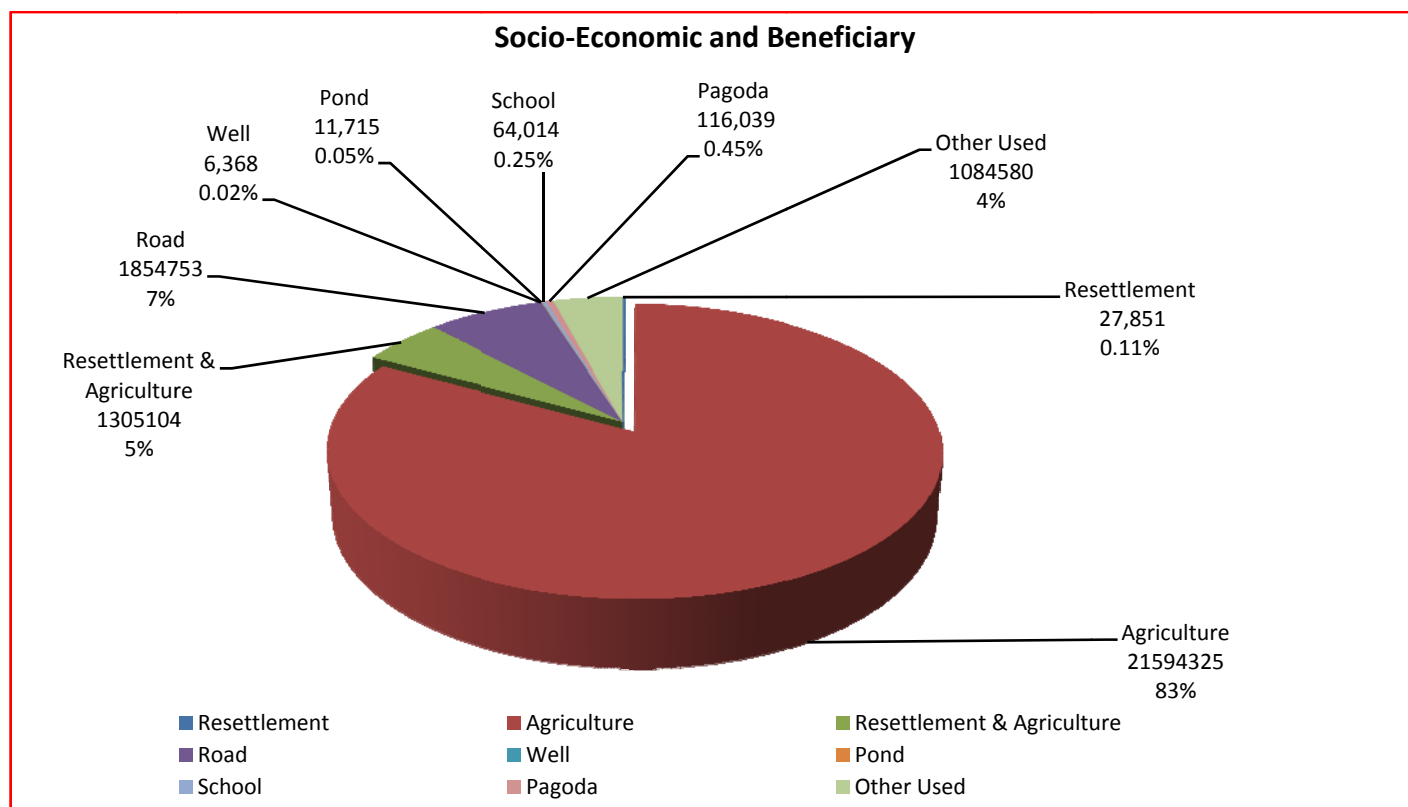
Demining Unit	Minefield Size (sqm)	Resettlement	Agriculture	Resettlement & Agriculture	Road	Well	Pond	School	Pagoda	Other Used
DU1	3,692,648	-	3,336,530	-	-	-	-	-	-	356,118
DU2	15,943,358	-	15,293,564	-	641,535	-	-	8,259	-	-
DU4	1,544,279	-	1,253,081	263,260	27,938	-	-	-	-	-
DU5	2,177,406	-	-	769,858	873,552	-	-	11,200	-	522,796
DU6	2,526,942	27,851	1,711,150	271,986	311,728	6,368	11,715	44,555	116,039	25,550



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TC	39,826	-	-	-	-	-	-	-	-	39,826
HQ	140,290	-	-	-	-	-	-	-	-	140,290
<b>Total</b>	<b>26,064,749</b>	<b>27,851</b>	<b>21,594,325</b>	<b>1,305,104</b>	<b>1,854,753</b>	<b>6,368</b>	<b>11,715</b>	<b>64,014</b>	<b>116,039</b>	<b>1,084,580</b>

Figure 2: Analysis Chart of Land Use Beneficiary



c) *Land Released Productivities in Six-month.*

The overall productivity achieved for the six-month period from January to June 2014 was 34,801,810m<sup>2</sup> out of which 16,376,858m<sup>2</sup> were released as C2 and 18,385,126m<sup>2</sup> were released as C3 respectively. In addition to this, 39,826m<sup>2</sup> were released as MC (Multi-Classification) with a total of: 12,867 items of Mine/ERW (4,028AP); 138 Improvised mines; 60 Anti Tank mines and 8,641 ERW being found and destroyed safely. And it should be noted that a number of these devices found and destroyed were not included with in the EOD results.

The below table 6 is providing a summary of productivity achieved during the reporting period and implemented by all Demining Units from January to June 2014.

Table 6: Summary of productivity achieved.

Land Released Categories	Area (m <sup>2</sup> )	AP Mine destroyed	AT Mine destroyed	ERW destroyed	IP Mine destroyed	Fragment	Small Arm(kg)
C1 area released	-	-	-	-	-	-	-
C2 area released	16,376,858	263	8	842	0	263,338	13
C3 area released	18,385,126	3,747	52	3,700	138	637,679	12

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MC (Multi-classification)	39,826	18	-	4,099	-	-	-
Total	34,801,810	4,028	60	8,641	138	901,017	25

**d) EOD Team Operational Achievement**

During the reporting period, CMAC deployed 30 EOD teams throughout the country to collect and destroy mines and ERW reported by local authorities, local people, policemen and NGOs. They did this to provide a safe environment free from the threat and fear of mines and ERW in the country. Regarding this activity, those teams achieved the following results:

**Table 7:**

Description	6-month period 2014	6-month period 2013	Variance
Areas Cleared (Spot check) in m <sup>2</sup>	139,246	147,941	5.88%
# EOD tasks conducted (Responded)	5,994	6,533	8.25%
# APM destroyed	3,154	2,017	56.37%
# ATM destroyed	96	110	12.73%
# ERW destroyed	45,681	51,537	11.36%
#Improvised mines destroyed	-	-	
# Small Arms (kg)	2,133	3,565	40.17%

**e) Mine Risk Education and Reduction (MRE)**

In addition to land release, CMAC also deployed 31 CBMRR and 18 CBURR and all demining teams and platoons to conduct risk reduction and education activities throughout the country, which include MRE session and collecting requests from local community and authority. These CBMRR and CBURR and demining teams and platoons provided 9,957 MRE sessions to 293,587 audiences, visited 43,498 households and collected 7,473 community's requests during the reporting period from January to June 2014. The below Table 8 provides an overview of details MRE outputs.

**Table 8: Overview of outputs**

Types of Progresses	Demining teams	CBMRR (DFP)	CBURR (DFP)	Total
Village visited	977	829	1,544	3,350
Course of MRE sessions	3,304	3,334	3,319	9,957
Household and field visited	23,062	13,250	7,186	43,498
<b>Total audience group attended in MRE Course</b>	<b>169,175</b>	<b>61,806</b>	<b>62,606</b>	<b>293,587</b>
<input type="checkbox"/> Men	47,888	25,660	15,798	89,346
<input type="checkbox"/> Women	48,860	21,328	13,321	83,509
<input type="checkbox"/> Children in school	21,495	11,216	16,397	49,108
<input type="checkbox"/> Out of school children	50,932	3,602	17,090	71,624
<b>Total number of requests(M/UXO) and report to EOD</b>	<b>3,341</b>	<b>735</b>	<b>3,397</b>	<b>7,473</b>
<input type="checkbox"/> AP & Improvised mines	233	741	419	1,393
<input type="checkbox"/> AT mines	14	110	19	143

Types of Progresses	Demining teams	CBMRR (DFP)	CBURR (DFP)	Total
<input type="checkbox"/> UXO	28,534	4,661	12,033	45,228
MRE materials have been used for their activities	1,779	884	14,786	17,449
<input type="checkbox"/> Large T-shirt	312	59	1,133	1,504
<input type="checkbox"/> Small T-shirt	331	255	1,072	1,658
<input type="checkbox"/> Note book	393	213	5,088	5,694
<input type="checkbox"/> Poster	360	99	5,435	5,894
<input type="checkbox"/> Flyer	335		642	977
<input type="checkbox"/> Leaflet	48	258	1,416	1,722

## 6. Productivity Analysis

### 1) Progress Analysis by Demining Teams/Assets

The planned target for land release was set up for all demining teams, for CMAC internal monitoring purposes and also to reflect progress against the annual work plan based on seasonal factors, number of operational days, operational resources and clearance capacity of each type of team. However, each demining team was not set the same standardized figures. This is because some of mobile team and mobile platoon are not yet fully applying the Land Release Methodologies and Techniques. Also in DU4, DU5 and DU6 they are still being trained to improve their practices and performance, to operate more smoothly and efficiency in the near future. The table below shows the planned targets for each of the demining teams for the 6-month period, from January to June 2014.

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Table 9: Progress Achievement Analysis

Demining Units	Demining Teams/ Asset	Projects	Land Released in (m <sup>2</sup> )			Remarks
			Target Planned in 6-month	Actual Achieved in 6-month	%	
DU1	MPL130	CFR7	476,523	504,755	105.92%	
	MPL 140	CFR7	476,523	512,825	107.62%	
	BC 07	CFR5, CFR7	442,113	309,816	70.07%	BC#07 achieved only 70.07% due to this team being deployed from May 2014 to June under CFR7, which has a lower planned target for 6-month period
	BC 11	CFR7	442,113	429,319	97.10%	
	BC 14	CFR7	442,113	477,335	107.97%	
	BC 18	CFR5, CFR7	442,113	193,156	43.69%	BC#18 achieved 43.69% due to this team being deployed for only three- months from January 2014, and then re-deployed from May 2014 to June 2014 under CFR7
	SLD 08	CFR7	315,795	326,140	103.27 %	
	SLD 10	CFR5, CFR7	315,795	5,751	1.82 %	SLD#10 was working only in January 2014 and achieved 1.82% compared to its planned target for the 6-month period. This due to team operations being postponed and the unit being moved to CMAC Training Center from February 2014
	SLD 14	CFR7	315,795	102,410	32.43%	SLD#14 was deployed from May to June 2014 under CFR7 in DU1 and achieved 102,410 compared to its 6-month planned target of 315,795m <sup>2</sup>
	TSC 02	CFR7	200,910	265,649	132.22 %	
	TSC10	CFR7	200,910	127,450	63.43 %	TSC#10 achieved 127,450 compared to its 6-month planned target of 200,910m <sup>2</sup> from January to June 2014, which was set out at DU1 for each TSC. This team was actually deployed from May to June 2014 under CFR7 in DU1 after moving from SESAN II project
	TSC 25	CFR7	200,910	134,811	67.10 %	TSC#25 achieved 67.10% compared to its 6-month planned target of 200,910m <sup>2</sup> from January to June 2014, which was set out at DU1 for each TSC. But this team was actually deployed from May to June 2014 under CFR7 in DU1 after moving from SESAN II project
	TSC 08	SPF2	50,000	55,518	111.03 %	
	PFT 01	SPF2	50,000	59,634	119.26 %	

DEPARTMENT OF PLANNING & OPERATIONS

Demining Units	Demining Teams/ Asset	Projects	Land Released in (m <sup>2</sup> )			Remarks
			Target Planned in 6-month	Actual Achieved in 6-month	%	
	PFT 02	SPF2	50,000	45,639	91.27 %	
	PFT 03	SPF2	50,000	59,735	119.47 %	
	PFT 04	SPF2	50,000	59,724	119.44 %	
	PFT 06	AAM	50,000	22,140	44.28%	PFT#06 achieved only 44.28% compared to its 6-month planned target of 50,000m <sup>2</sup> . This is because the team was deployed for only 4 months from January to February 2014 under the Swedish Postcode Foundation phase 2 (SPF2) and then moved to the AAM project from March to April 2014. Work postponed on Postcode Project from May to June 2014.
<b>DU2</b>	MPL 119	CFR8	450,000	451,620	100,36%	
	MPL 129	CFR8	450,000	420,238	93,38%	
	MPL 135	CFR8	450,000	470,955	104,10 %	
	MPL 137	CPF9	450,000	466,217	103,60 %	
	MPL 109	PBD2	450,000	1,139,262	253,16 %	
	MPL 120	PBD2	450,000	528,824	117,51 %	
	MPL 102	SVC	450,000	501,060	111,34 %	
	MPL 148	SVC	450,000	602,057	133,79%	
	BC 03	CFR8	150,000	96,350	64,23 %	This BC moved from Sesan II project (Steung Treng province) from May 2014 and spent 1 to 2 weeks being repaired at CMAC Central Workshop in Battambang before restarting operations on the ground under the CFR project from mid of May to June 2014
	BC 08	CFR8	450,000	401,332	89,18 %	
	BC 10	CFR8	150,000	119,584	79,72 %	This BC moved from Sesan II project (Steung Treng province) from May 2014 and spent 1 to 2 weeks being repaired at CMAC Central Workshop in Battambang before restarting operations on the ground under the CFR project from mid of May to June 2014
	BC 12	CFR8	450,000	457,644	101,69 %	
	BC 13	CFR8	150,000	126,809	84,53 %	This BC moved from Sesan II project (Steung Treng province) from May 2014 and spent 1 to 2 weeks being repaired at CMAC Central Workshop in Battambang before restarting operations on the ground under the CFR project from mid of May to June 2014



**DEPARTMENT OF PLANNING & OPERATIONS**

Demining Units	Demining Teams/ Asset	Projects	Land Released in (m <sup>2</sup> )			Remarks
			Target Planned in 6-month	Actual Achieved in 6-month	%	
	BC 16	CFR8	150,000	120,686	80,45 %	This BC moved from Sesan II project (Steung Treng province) from May 2014 and spent 1 to 2 weeks being repaired at CMAC Central Workshop in Battambang before restarting operations on the ground under the CFR project from mid of May to June 2014
	BC 19	CFR8	450,000	416,849	92,63 %	
	BC 22	CFR8	450,000	453,281	100,72 %	
	BC 06	CPF9	450,000	471,386	104,75 %	
	BC 23	CPF9	450,000	408,038	90,67 %	
	BC 09	SVC	450,000	383,348	85,18 %	
	BC 27	PBD2	450,000	755,936	167,98 %	
	DM 01	PBD2	720,000	1,165,381	161,85 %	
	DM 02	PBD2	450,000	332,040	73,78 %	There are no deminers to support this team and the team did not achieve its planned target set out for this 6-month period from January to June 2014
	DM 03	PBD2	450,000	73,469	16,32 %	There are no deminers to support this team and the team did not achieve its planned target set out for this 6-month period from January to June 2014
	DM 04	SVC	450,000	330,572	73,46 %	There are no deminers to support this team and the team did not achieve its planned target set out for this 6-month period from January to June 2014
	DM 05	PBD2	720,000	885,893	123,04 %	
	DM 06	PBD2	720,000	686,348	95,32 %	
	DM 07	PBD2	720,000	774,107	107,51 %	
	DM 08	PBD2	720,000	612,247	85,03 %	
	DM 09	PBD2	450,000	399,998	88,88 %	
	TSC 01	CFR8	70,000	66,054	94,36 %	
	TSC 04	PBD2	210,000	278,427	132,58 %	
	TSC 05	PBD2	210,000	440,494	209,75 %	
	TSC 06	CPF9+CFR8	210,000	212,459	101,17 %	
	TSC 09	CFR8	210,000	273,397	130,18 %	

DEPARTMENT OF PLANNING & OPERATIONS

Demining Units	Demining Teams/ Asset	Projects	Land Released in (m <sup>2</sup> )			Remarks
			Target Planned in 6-month	Actual Achieved in 6-month	%	
	TSC 11	PBD2	210,000	590,916	281,38 %	
	TSC 12	CPF9+CFR8	210,000	176,450	84,02 %	
	TSC 14	CPF9	210,000	195,808	93,24 %	
	TSC 15	CFR8	210,000	242,105	115,28 %	
	TSC 16	CPF9	210,000	142,350	67,78 %	Most of the minefields assigned for this team contained a lot of metal fragments and the dense forest and bamboo made it difficult to clear. As a result this team did not meet its planned target for the 6-month period from January to June 2014
	TSC 17	PBD2	210,000	630,094	300,04 %	
	TSC 23	IMCCD	120,000	159,212	75,81 %	
	TSC 26	CFR8	105,000	80,061	76,24 %	This team was restructured and reformed with the former Path Finding Team (PFT07). From February to April 2014, this team was deployed to work in Steung Treng (Sesan II project), then moved back to CFR8 in BTB from May 2014 and started applying the Land Release methodology and techniques. However, they still had problems with the land release process and work proceeded slowly.
	TSC 27	CFR8	105,000	143,897	137,04 %	
	TSC 28	CFR8	70,000	56,688	80,98 %	
	TSC 29	CFR8	70,000	101,991	145,70 %	
	SLD 06	CPF9	300,000	261,530	87,17 %	
	SLD 07	CFR8	300,000	291,032	97,01 %	
	SLD 09	CFR8	100,000	85,008	85 %	
	SLD 01			MAG		The progress of this team is not recorded in the CMAC monthly report.
	SLD 02			MAG		The progress of this team is not recorded in the CMAC monthly report.
	SLD 03			MAG		The progress of this team is not recorded in the CMAC monthly report.
	SLD 11	CFR8	150,000	189,844	126,56 %	
	LLD 02	PBD2	240,000	626,497	261,04 %	
	LLD 03	PBD2	240,000	561,223	233,84 %	

**DEPARTMENT OF PLANNING & OPERATIONS**

Demining Units	Demining Teams/ Asset	Projects	Land Released in (m <sup>2</sup> )			Remarks
			Target Planned in 6-month	Actual Achieved in 6-month	%	
<b>DU4</b>	MPL 112	CPF8	1,122,500	1,214,715	108.22%	This mobile platoon lost 5 working days during the reporting period. At least 3 working days was spent on moving accommodation from the old minefield to a new location and two days was assigned to clearing and conducting QC on the plantation area (Phum Toam Cheat, Samdech Techo Hun Sen), requested by the National Special Working Team of Preah Vihear province
	BC 15	CPF8	357,500	356,531	99.74%	
	BC 20	CPF8	357,500	313,867	87.80%	
	TSC 03	CPF8	192,500	273,885	142.28%	
	TSC 21	CPF8	192,500	241,650	125.53%	
	TSC 24	CPF8	192,500	347,410	180.47%	
	SLD 12	CPF8	225,000	192,132	85.39%	At least 3 working days was spent on moving accommodation from the old minefield to a new location and they also spent 10 days for refresher training at the CMAC Training Center.
<b>DU5</b>	N/A					
<b>DU6</b>	MPL 107	APOPO	270,000	329,933	122.19%	
	MPL 141	APOPO	270,000	289,980	107.40%	
	MPL 142	APOPO	270,000	340,290	126.03%	
	MPL 143	APOPO	270,000	246,656	91.35%	This platoon postponed operations for 6 working days to attend land release training at CMAC DU4 Headquarter
	MPL 144	APOPO	270,000	205,695	76.18%	This platoon postponed operations for 6 working days to attend land release training at CMAC DU4 Headquarter
	MPL 145	APOPO	270,000	173,373	64.21%	This platoon postponed operations for 6 working days to attend land release training at CMAC DU4 Headquarter
	MPL 146	APOPO	270,000	199,834	74.01%	This platoon postponed operations for 6 working days to attend land release training at CMAC DU4 Headquarter
	MPL 147	APOPO	270,000	265,716	98.41%	
	TSC#07 (BC#25 Feb to Apr 2014)	APOPO	90,000	207,249	230.27%	
	TSC#13	APOPO	90,000	95,763	106.40%	
	TSC#18	APOPO	90,000	84,340	93.71%	

DEPARTMENT OF PLANNING & OPERATIONS

Demining Units	Demining Teams/ Asset	Projects	Land Released in (m <sup>2</sup> )			Remarks
			Target Planned in 6-month	Actual Achieved in 6-month	%	
	TSC#19	APOPO	90,000	60,836	67.59%	
	TSC#20 (BC#26)	APOPO	90,000	126,938	141.04%	
	TSC#22	APOPO	90,000	85,905	95.45%	
	BC#26 (from Feb to 8-May 2014)	APOPO	75,000	125,510	167.34%	
<b>Total achievement Vs Target</b>			<b>26,886,883</b>	<b>29,327,083</b>	<b>109.08%</b>	All teams combined achieved in total at least 9.08% over the planned target.

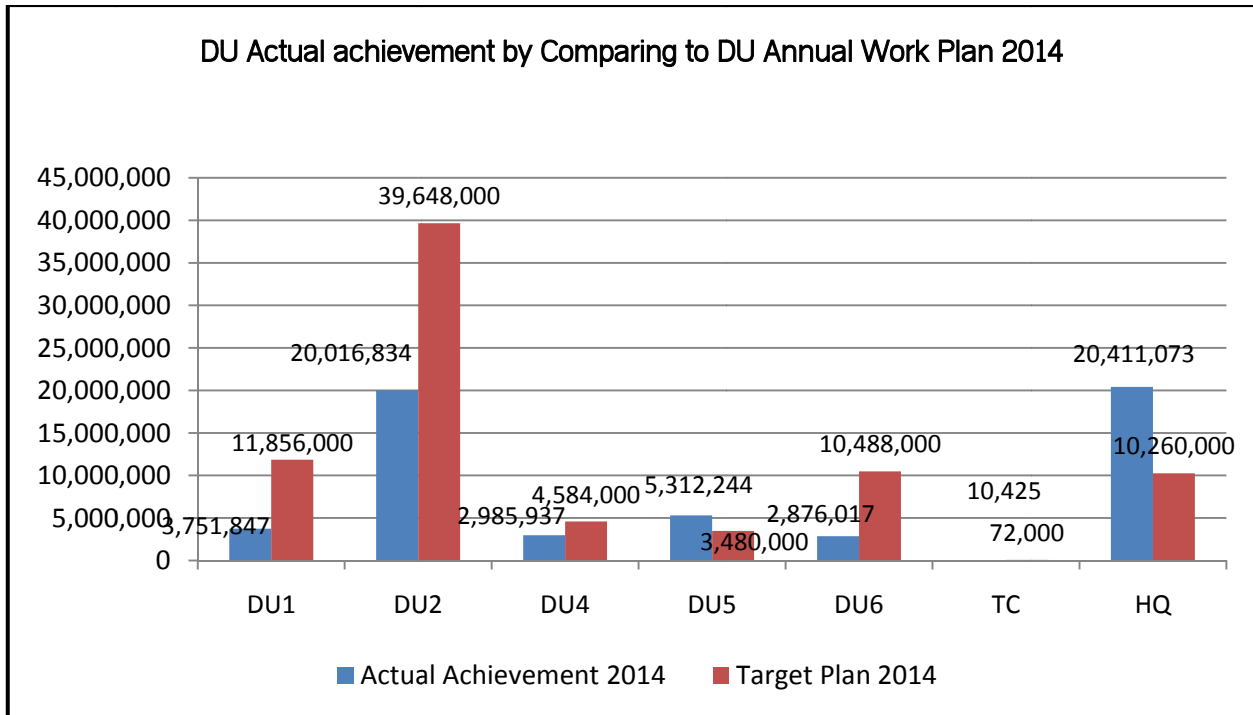
2) Progress Analysis by Demining Unit

In addition to comparing by demining tools (asset), CMAC have set out the planned targets by the Demining Unit as below table 10.

Table 10:

S/N	Demining Unit	Annual Work Plan Set in 2014		Achievement in 1 <sup>st</sup> Six-month, 2014	
		Areas to be cleared	Annual percentage (%)	Actual progress	% in comparing to Annual Work Plan
1	Demining Unit 1	11,856,000 m <sup>2</sup>	14.68 %	3,751,847 m <sup>2</sup>	31.65 %
2	Demining Unit 2	39,648,000 m <sup>2</sup>	49.10 %	20,016,834 m <sup>2</sup>	50.48 %
3	Demining Unit 4	4,584,000 m <sup>2</sup>	5.68 %	2,985,937 m <sup>2</sup>	65.14 %
4	Demining Unit 5	3,840,000 m <sup>2</sup>	4.76 %	5,312,244 m <sup>2</sup>	138.34 %
5	Demining Unit 6	10,488,000 m <sup>2</sup>	12.99 %	2,876,017 m <sup>2</sup>	27.42 %
6	CMAC Training Center	72,000m <sup>2</sup>	0.09 %	10,425 m <sup>2</sup>	14.48 %
7	CMAC Headquarter	10,260,000m <sup>2</sup>	12.71 %	20,411,073 m <sup>2</sup>	198.94 %
		<b>80,748,000 m<sup>2</sup></b>	<b>100 %</b>	<b>55,364,377 m<sup>2</sup></b>	<b>68.56 %</b>

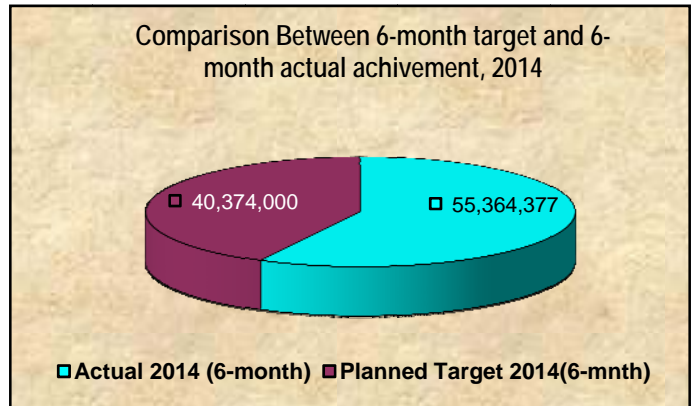
Figure 3: Comparison Chart between the 1<sup>st</sup> Six-Month Actual Achievements by DU Vs DU Annual Work Plan, 2014



3) Operational Factor Analysis:

The overall progress, of all CMAC Demining Units, indicates an achievement of at least **137.12%** in these first 6 months, against the planned target set as mentioned above. It should be noted that this is **37.12%** over the planned 6 month target and it's has also reached **68.56%** of the annual target for 2014 (as **81,748,000m<sup>2</sup>**). Regarding this demonstrated progress, some relevant reasons for the increased productivity during the six-month reporting period are below stated:

1. **Fragment Contamination (FC)**, in total 1,884,829 pieces found over a cleared area of 55,364,377m<sup>2</sup>. This is **0.034** pieces per square meter. In percentage terms:
  - 86.4% of land cleared had only light fragment contamination, in the operational areas of all DUs,
  - 13.6% 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 m<sup>2</sup>); medium=0.8 (2 to 3.50 pieces per m<sup>2</sup>); heavy=0.6 (3.50 to 4 and/ or over 4 pieces per m<sup>2</sup>)



**2. The presence of personnel at work, in total (132,174 person-days):**

- 89.31% of total field personnel were present at work
- 0.57% of total field personnel were assigned to attend CMAC training courses,
- 0.48% were on mission,
- 4.77% were on taken annual leave,
- 1.18% were on sick leave,
- 0.43% were on compensation leave
- 0.13% were on maternity leave
- 0.02% were on leave with pay,
- 0.26% were on leave without pay,
- 1.54% were lost because of lack of field personnel,
- 0.14% were absent without permission,
- 0.24% were on obligation leave (to work out of the project...etc),
- 0.93% were absent for other reasons

**3. Working Hours, in total (122,304 hours-days):**

- 77.45% of total times were working hours
- 0.67% of total times were the raining period,
- 14.32% of total times were the travelling hours,
- 3.70% of total times were the maintenance periods of all BC and DM teams,
- 0.35% of total times were the repairing hours of all BC and DM teams,
- 0.04% of total times were waiting periods to get spare part for repairing some BC and DM teams,
- 0.11% of total times were the movement or replacing accommodation and transportation of goods; and BC or DM to the new location,
- 3.36% of total times were other reasons.

**4. The mine detectors, in total (89,845 mine detector-days):**

- 67.32% of all mine detectors (MD) were actually used for the operations.
- 32.68% of mine detectors were not used due to deminers being absent or on leave, or detectors broken and being sent for repair at the CMAC workshop,

**5. The mine detection dogs (MDD), in total (1,930 mine detection dog-days):**

- 83.99% of all mine detection dogs (MMD/EDD) were actually used for operations.
- 12.49% of mine detection dogs were assigned to attend refresher training at the CMAC TC.
- 0.57% of mine detection dogs were sick and had to be treated at the CMAC Training Center
- 2.95% of mine detection dogs were not used due to lack at operations.

**4) Other Reasons Affecting Operational Progress:**

❖ **Demining Unit 1:**

- i. The Swedish Postcode Foundation Project ended on May 31<sup>st</sup>, 2014. At the end of this project, 4 Path Finding Teams (PFI), 1EOD and 1 Provincial Coordinator (CBMRR) lost their jobs (stood down) and due to this they lost productivity by about 60,000m<sup>2</sup> during the reporting period.
- ii. The Clearing for Result Project Phase 5 ended on January 31<sup>st</sup>, 2014, this affected 2 BC and 1 SLD team which had to postpone operations and lost productivity of around 339,765m<sup>2</sup> for the period from February to April 2014.

❖ **Demining Unit 2:**

- i. The reception for the Angola delegates and other International Guests in February and May 2014, meant they lost productivity by 661,000m<sup>2</sup> during the reporting period.

- ii. Lack of 20 field staff for Mobile Platoon 119 and MPL137, BC06 and SLD06 made lose some productivity during the reporting period.

❖ **Demining Unit 4:**

- i. 25 working days were lost for one mobile platoon, 2 brush cutters, one SLD and ONE TSC team. As a result they lost productivity of around 99,520m<sup>2</sup> during the reporting period.
- ii. Most of minefields are so far from one to another that the demining team spent a lot of fuel and much time just travelling to do clearance work

❖ **Demining Unit 5:**

- i. The USA project was ended on March 31<sup>st</sup>, 2014. This early finish affected 8 Battle Area Clearance by Village (BAV) teams and 11 EOD teams. Their operations were postponed in April 2014, waiting for a new project. This meant that they lost productivity of around 331,000m<sup>2</sup> during the reporting period.
- ii. When the new project was approved and started 14 BAC, 5EOD and 5EDD were assigned to attend training at the CMAC Training Center for one month period from 1 – 30 May 2014. If this training was not happened, they could have cleared at least 9,662,300m<sup>2</sup> during this period.

❖ **Demining Unit 6:**

- i. 4 mobile platoons under the APOPO project in DU6 were directed to postpone operations and attend land release training for 6-working days at DU4 Headquarters. This meant they lost productivity of around 900,000m<sup>2</sup> from their target during the reporting period.
- ii. In addition to this, 4TSC teams were assigned to attend land release training in for 3 working days and another 2 days were assigned to receive international guests on a visit to the minefields. Lost productivity was at least 49,000m<sup>2</sup> during the reporting period.

**a) Adherence to work plan**

- During the reporting period from January to June 2014, the Technical Survey Team of CMAC DU1 worked together with villagers and land owners to check and verify the quality of the survey reports, so as to make sure that this progress report had enough information and was adequate for future operational work plans. In addition to this, both QA/QC teams from CMAC DU1 and CMAA visited the survey site to check and ensure that the Technical Survey Team followed the CMAC SOP and assisted in improving some small mistakes in doing the survey tasks and writing the survey report as the BLS polygon as well.
- At least 2 times, DU4 assigned two technical staff and TSC team leaders to cooperate with local authorities and land owners' to collect the pre and post information before releasing land to the communities for productive purposes. In addition to this, in April 2014 the Operation and Planning Officers conducted a brief presentation to TSC03, TSC21 and BC15 on the land release process and how to present to visitors and guests when they visit a minefield in DU4.
- In DU5, Land Classification of B1.2 is the first priority, to select into work plan for USA-NPA Project, around 373 SHA in Kampong Cham and Kratie Province, Socio-economic land impact by B1.2 is equal to 11,686ha. DU5 had selected 180SHA in step one amount for assessment into plan, and 42SHA (1,588 ha) is required to remove out from clearance plan due to it is the commercial Land.
- In DU6, some minefields had a lot of fragments and dense vegetation that were blocking our demining platoons' operations. Especially when they needed a lot of time to clear and dig the point detected. This made them go slow and reduced demining progress. Also, the laterite soil at some minefields made it difficult for the mine detectors to detect landmines/ERW and made progress slow. In addition, some

minefields had to be enlarged due to landmines being found outside of the boundary, therefore the demining platoons had to enlarge a clearance sites to cover the whole suspected area, in order to reduce the risk and prevent any mine incident happening in the community.

***b) Collaboration with others***

- At least 354 minefields were handed over to land owners and local communities for productive purposes in DU1, DU2, DU4, DU5 and DU6 in cooperation with the local authority and with MAPU and CMAA in doing the QA/QC activities before releasing land. During the reporting period all DUs have also cooperated with MAPU, local authorities, NGOs and other development partners in Banteay Meanchey, Battambang, Pailin, Pursat, Siem Reap, Oddar Meanchey, Preah Vihear, Kampong Thom, Kampong Cham, Kratie, Prey Veng, and Svay Rieng to collect the clearance requests for their next clearance planning.
- All Demining Units will continue to cooperate closely with MAPU at districts and provincial levels and with local people and authorities, to select minefields for the next six-month planning period and also for the 2015 annual work plan.

***c) Challenges and actions taken***

**Demining Unit 1:**

- Difficulty to collect and make appointments with local people and authorities, to hand over the cleared minefields
- Most of minefields are so far from each to others and teams spend a lot of time travelling everyday to do clearance works
- Weather always changing with heavy rain, hot weather, storms and lightning affecting the mine detectors
- No access roads to the minefields, especially making it difficult for trucks to get access.
- There are no village BLS maps for selecting minefields for the operational work plan
- Demining equipment is getting old and broken, needing repairs, making it difficult to achieve clearance targets.

**Demining Unit 2:**

- Difficulty to collect and make appointments with local people and authorities, to hand over the cleared minefields
- Weather always changing with heavy rain, hot weather, storms and lightning affecting the mine detectors
- No access roads to the minefields, especially making it difficult for trucks to get access.

**Demining Unit 4:**

- Most of minefields are so far from each to others and teams spend a lot of time travelling everyday to do clearance works
- Lack of 17 deminers in mobile platoon, TSC and BC teams affected the daily progress and meant they did not achieve the planned target.
- Dense forest and insects affected to the daily speed of operations and made it difficult to respond to the set mine/UXO clearance plan.

**Demining Unit 5:**

All 23 teams (14BAC, 5EOD and 4EDD) were assigned to attend training courses at the CMAC Training Center from 01-30 May 2014, to provide them with new skills on Land Release Techniques and Methodologies by focusing the specific topics such as BLS, Cluster Survey, Land Release SOP and Computer skills. Some findings from the training were that:

- 5 EOD teams did not yet understand well the BLS process
- Some of BAC teams did not yet understand well the process of CLS.

- All of Team Leaders were still not clear on how to use computer software, especially the ARC Map Program.
- All of the EOD teams are not multi skilled enough yet, they need to improve and may need another 2 people with EOD skills and another 2 with BLS and CLS skills, for each team.

**Solution and action taken:**

All teams postponed operations from 3<sup>rd</sup> June to 9<sup>th</sup> June 2014 to attend refresher training, especially all team leaders in DU5 office, focusing on BLS, CLS and Computer skills. Otherwise, the training plan was set up and approved by NPA as per the proposed schedule.

**Demining Unit 6:**

- Most of minefields are so far from each to others and teams spend a lot of time travelling everyday to do clearance works
- Weather always changing with heavy rain, hot weather, storms and lightning affecting the mine detectors
- No access roads to the minefields, especially making it difficult for trucks to get access.
- Demining equipment is getting old and broken, needing repairs, making it difficult to achieve clearance targets.

**d) *Safety and Occupational Health***

- DU1, there were no critical safety issues or occupational health issues occurring during the reporting period,
- DU4, there were 13 sick deminers during the reporting period, 12 of them took sick leave and stayed at home and another one was sent to the hospital for treatment.

**e) *The Next 6-Month Planning***

- 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 teams to do QA/QC as much as possible, to eliminate all mistakes of all demining teams in order to increase productivity and to achieve the set targets for CMAC in 2014.
- 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 2014 as well.
- All DUs will continue to strengthen and urge all demining teams to implement and follow all existing SOPs to avoid mine/ERW incidents during operations and as well as to help them provide for a safe and professional environment in demining.
- 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 targets for CMAC in 2014.
- All DUs will continue to conduct refresher courses on the gap points found by QA/QC teams, to do corrective and preventive action in time, and to eliminate the re-occurrence of mistakes.

7. Training Activities

a)- Training by Demining Unit:

S/N	Training Course	Number of Trainee	Starting date	Ended date	Location	Remarks
01	Conducted a Refresher Training on minelab F3 and Ebinger Upex 740m to all demining teams	123	5-May-2014	5-May 2014	Svay Chek, Thmor Pouk, BMC	
02	Conducted a Refresher Training on minelab F3 and reinforce morality to all demining teams	34	13-May 2014	13-May 2014	Svay Chek, Thmor Pouk, BMC	
03	Basic training on minelab F1A4, F3 and Ebinger Upex 740m	79	5-May 2014	9-May 2014	Banan and Kaos Kralor districts, BTB	
	<b>Total</b>	<b>236</b>				

b)- Training by CMAC Training Center:

S.N	Course Title	Course No.	Location	Trainee Source	Number of Trainee		Duration		Remarks
					Inter. Train	Exter. Train	Started Date	Finished Date	
1	Demining and Mine Detector Refresher Course (SesanII)	73	TC	Dus	15		13-Jan-14	17-Jan-14	
2	Demining and Mine Detector Refresher Course (SesanII)	74	TC	Dus	40		3-Feb-14	6-Feb-14	
3	EOD Refresher Course (ITTT of JMAS) Workshop	52	TC	Dus	35		10-Feb-14	13-Feb-14	
4	CBURR Refresher Course (ITTT of JMAS) Workshop	6	TC	Dus	9		10-Feb-14	13-Feb-14	
5	BAC Reinforcement Training Course US-NPA	1	TC	DU5	126		01-May-14	30-May-14	
6	EOD IMAS Level I	1	GW	DV	9		11-Apr-14	30-Apr-14	USA Instr
7	EOD IMAS Level I, II	1	GW	VN		10	17-Jun-14	10-Jul-14	USA Instr
8	First Aid	1	GW	DV	9		21-Jun-14	24-Jun-14	USA Instr
<b>Total:</b>		<b>8</b>	<b>TOTAL :</b>		<b>243</b>	<b>10</b>			



**DEPARTMENT OF PLANNING & OPERATIONS**

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c)- MDD/EDD Training by CMAC Training Center:

S/N	Course Title	Course No.	Number of Trainees		Instructor Responsibility by:		Date		Location
			Staff	Dog	Internal	External	Start	End	
1	New Dog Training Course	1		10	1	1	24-Jan-14	01-Dec-14	TC
2	Refresher Course EDD 02/03	145	10	4	1		02-Jan-14	24-Jan-14	TC
3	Refresher Course SLD 08	146	5	2	1		20-Jan-14	31-Jan-14	TC
4	Converted training SLD to EDD Course	4	4	4	1		3-Feb-14	30-Apr-14	TC
5	Refresher Course SLD 12 & LLD02	147	10	4	1		17-Feb-14	14-Mar-14	TC
6	Refresher Course SLD 06	148	5	2	1		11-Mar-14	11-Apr-14	TC
7	Refresher Course SLD 11, 13, 14	149	8	4	1		20-Mar-14	3-Apr-14	TC
8	Refresher Course SLD 02	150	10	4	1		21-Mar-14	3-Apr-14	TC
9	Refresher Course, LLD03	151	5	2	1		7-Apr-14	25-Apr-14	TC
10	Refresher Course, SLD03 & 07	152	15	6	1		21-Apr-14	30 Apr 14	TC
11	Refresher Course, SLD01	153	10	4	1		5-May-14	16-May-14	TC
12	New hand over dog handling course	16	5	3	1		5-May-14	20-Jun-14	TC
13	Refresher Course, IED-Dog 01	154	3	3	1		23-Jun-14	9-Jul-14	TC
	<b>Total:</b>	<b>13</b>	<b>90</b>	<b>42</b>	<b>12</b>	<b>1</b>			

**Note:** \*Some training courses that were set out in the 2014 training plan were delayed for the first 6-months of 2014. These two courses were 1) Basic Dog Handling and 2) MDD/EDD Team Leaders. The MDD/EDD office cooperated with the TC to propose the dog handling course to the Department of Support and Human Resources at Headquarter but the course has not happened to date. The MDD/EDD Team Leader course also did not happen.

8. Major Events

1. In January 2014, one group of guests of 5 people from UNDP visited the demining activities and took pictures.
2. From 17-20 February 2014, HE Khem Sophaon and his delegates visited the DU2, DU1, DU6, DU4, Sesan II project and DU5. The purpose of visit was to monitor the demining activities and also to reminisce and stimulate all demining teams to follow SOP and keep away from accidents during

operations. The locations of visits were at O Doun Pov, Bavel ditrict, Battambang and Svay Chek and Thmor Pouk districts, Banteay Meanchey and Samrong district, Oddar Meanchey, and Steung Treng (Sesan II project) and finally a meeting with all DU key staff at DU5 head office.

3. In March 2014, 3 groups of guests visited the Demining Unit 1. The 1<sup>st</sup> group of 19 people from Canada, and the 2<sup>nd</sup> group of 8 people from Japan and the 3<sup>rd</sup> group of 2 people from Sweden. The purpose of the visits was to monitor the demining activities and take photos of some minefields for their fundraising in their countries.
4. In March 2014, 3 visitors from Japan visited an exhibition in DU4. In May 2014, a group of 13 visitors (10 persons from Singapore, 1 from Philippines, 1 from England and 1 from New Zealand) visited the exhibition in DU4.
5. A course of Training for 10 Angola trainees supported by JICA called Angola-Cambodia South South cooperation on mine action sector was conducted from 19-31 May 2014. These trainees also visit the CMAC Training Center and minefields in Battambang, Banteay Meanchey and Siem Reap provinces.

## 8. Department of Planning and Operations

### a) Management Achievements:

During the reporting period, the Department of Planning and Operations have made remarkable achievements and implemented many activities as follow:

- 4 technical training courses were conducted. In total 148 trainees were assigned to participate in the Cluster Survey (122 pers at TC), on Land Release Process (6 pers at DU2), and on Cluster Suvey SOP and application (20 pers at DU5).
- In terms of refreshment training, 2 courses were provided. In total 69 trainees participated in EOD JMAS Project (44 pers at TC), on EOD NPA-US project (25 pers at TC).
- 4 Worskops were conducted. In total 140 staff were assigned to participate in the Technical Workshop on planning and operational issues (27 pers at SRP), on the EOD Workshop (79 pers at TC), on Land Release (28 pers at DU2,DU6), and IMSMA (6 pers at CMAC HQ),
- 4 field monitoring and assessment were conducted as follow:
  - ✓ Conducted assessment on Land Release Application at DU6 in April 2014,
  - ✓ Conducted field monitoring and evaluation on EOD CFR projects at DU1 and DU2 in March 2014,
  - ✓ Conducted assessment on MDD issues at DU1 and DU2 in May 2014.
  - ✓ Conducted field monitoring and evaluation on EOD JMAS project in June 2014,
- 6 technical staff were engaged with the South-South Cooperation workshop and provided lectures to the INAD-Angola participants in Cambodia in May 2014.
- Issued 31 Operational Orders for closing and re-opening operational activities in all projects within CMAC in the first six-month, 2014
- Reviewed at least 6 versions of CMAC deployment matrix for all projects
- Prepared the Deployment tools for CFR 3 month extension (BMC and BTB).
- Reviewed and updated the Mobilization Plan (MOB) in 4 versions
- Produced 32 reports such as 12 monthly reports for CFR, 4 monthly report for MDD, 6 monthly reports for CMAC-NPA Land Release, 4 Quarter report for CFR, 2 quarter reports for CMAC-NPA Land Release, 2 six-month reports for CFR, 1 six-month report for CMAC-NPA Land Release project, and 1 completion report for CFR 2013-2014.
- Issued 1 new concept of operations for restructuring of 14BAC, 5EOD and 2EDD USA-NPA (USN) project to implement in DU5

- Completed CMAC Operational Work Plan (OWP) 2014 in 2 versions
- Reviewed one version of CMAC Clearance target for IWP 2014.
- Complete translation of 9 lessons of EOD technician level 1 from English to Khmer.
- Finished reviewing on CMAC EOD lesson level 1
- Coordinated with Golden West to collect progress report of EHP
- Coordinated with Golden West to monitor diving team's activities
- Conducted survey and identify chemical drum found in Mondul Kiri province
- Conducted ISO Management Review Meeting
- Reviewed MDD SOP 700 and Equipment Table List
- Issued 85 administration letters to management and other relevant departments and units

**b) Management Work Plan for the Next 6-Month:**

- Continue to prepare Operational Orders to close and re-open operations in all projects for CMAC 2014.
- Continue to prepare CMAC deployment matrix in 2014 for all projects
- Continue to review and update the Mobilization Plan (MOB).
- Prepare monthly, quarterly productivity report 2014.
- Conduct at least 4 field monitoring visits to DUs including EOD
- Continue to translate EOD Tech 1 lessons
- Continue to review CMAC EOD lessons (Level 1,2,3 and 4)
- Conduct EOD training in 3 different courses in 1 course for Level 1 in September, Level 2 in October, and Level 3 in November)
- Continue to review 2 SOPs (1. SOP Equipment List in September, 2. Cluster Survey and Land Release December)
- Continue to conduct ISO 9001-2008 Internal, external training, internal and external audit.
- Conduct assessment on MDD/EDD team to improve safety, efficiency and effectiveness of operations
- Conduct assessment on tools and technologies to improve the efficiency and effectiveness of Land Release methodology

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25 August 2014

**Attachment:**

- Annex A: CMAC Operation Summary Progress Report
- Annex B: List of Completed Minefields and On-going for the 6-month period from all DUs