

# Olvanan Southern Fleet Marine Expeditionary Force Red Book



v1.0



<b>Version</b>	<b>Date</b>	<b>Description</b>	<b>Author</b>
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# Purpose & Basis

- **The Olvanan Southern Fleet Marine Expeditionary Force [SFMEF] represents an Olvanan People's Army (OPA) capability designed to be able to project power to the first island chain from the Olvanan mainland, and potentially further**

- The capability is embedded in a structure described in the following pages
- The structure is to be used as an OPFOR for scenarios that requires Olvanan projection of power across the Indo-Pacific region
- Exercise designers may use the entire structure or elements of it to support exercise design

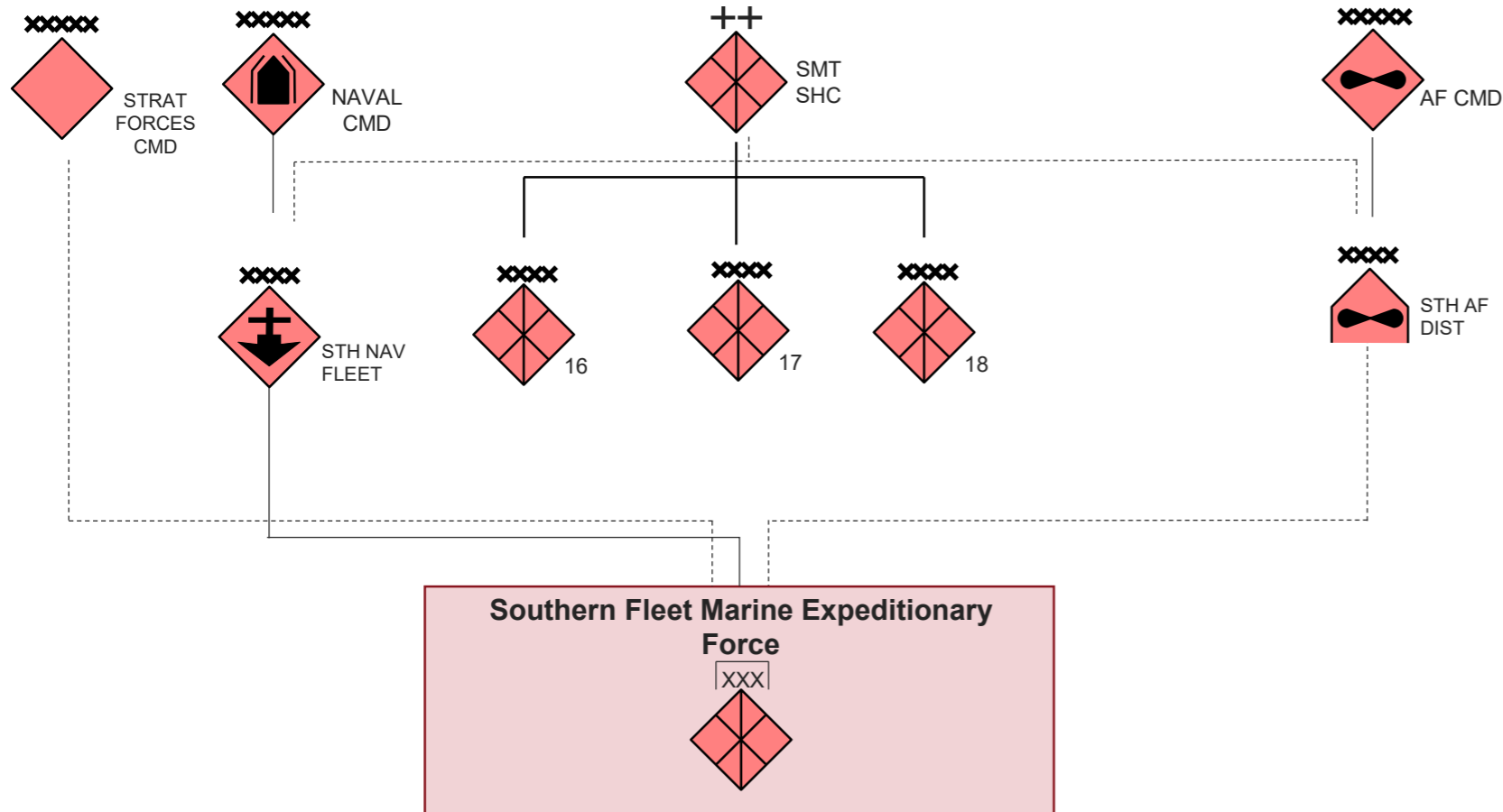
- The structure was generated from products developed by the United States Command and General Staff College (US CGSC), ATP 7-100.3 and the Operational Environment Data Integration Network (ODIN)
- The structure assumes a command by the Olvanan People's Navy (OPN under the OPA)
- This replicates the OPA's preference for a single service command, minimising additional Joint capabilities, as most force elements belong to the Southern Fleet Command under the Southern Military Theatre Command
- Functional command within the Olvanan Southern Fleet Marine Expeditionary Force follows the traditional Olvanan domain based command structure

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  - Platform/Capability Systems Descriptions

# Organisational Context

## Southern Military Theatre



The Southern Fleet Marine Expeditionary Force (SFMEF) is a corps-sized joint force based on 1 Marine Expeditionary Corps, augmented with coastal defence cruise missile units from Strategic Forces Command, OPN Southern Naval Fleet and OPAF Southern Air Force District.

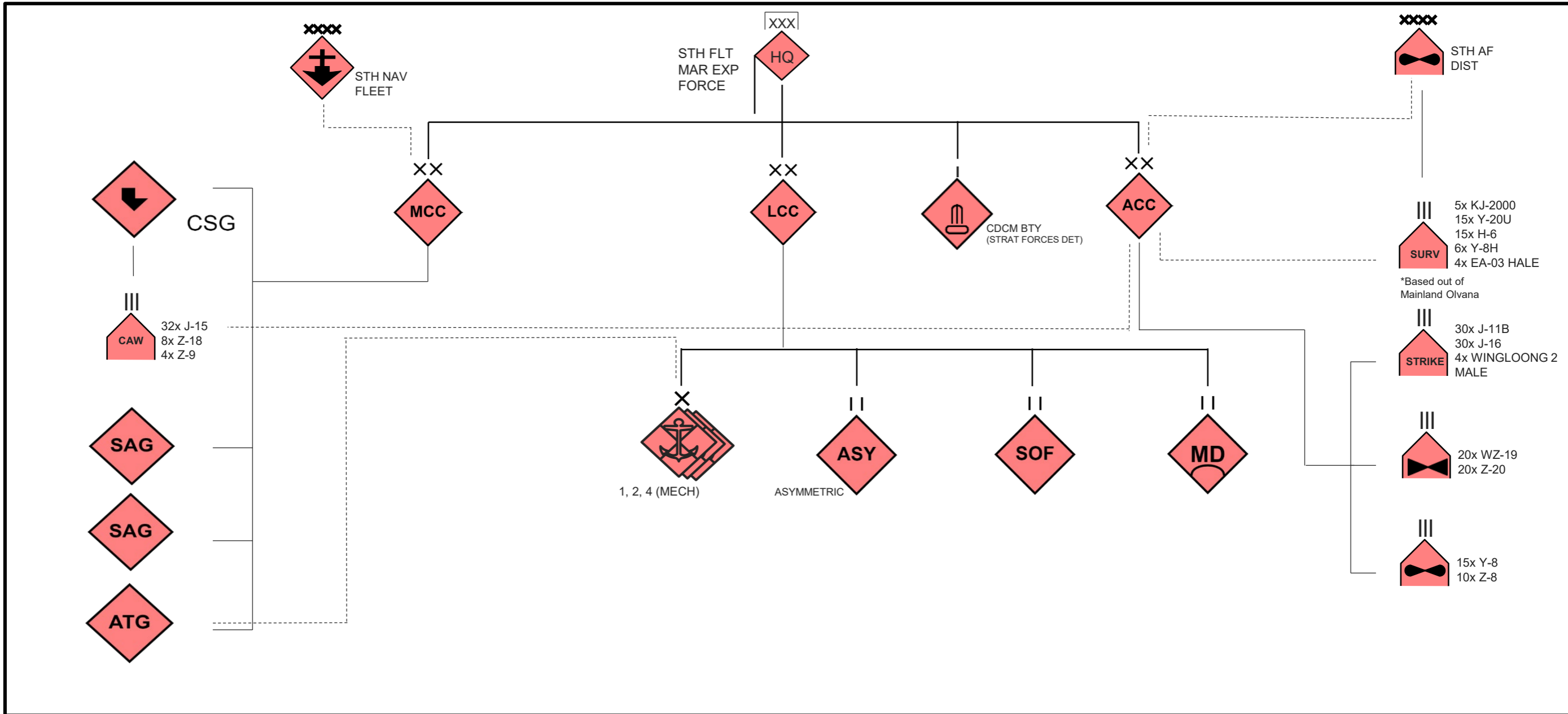
### Higher formations, Roles & Contributions

The Southern Military Theatre (SMT) AO includes the land in southern Olvana bordering Sungzon and the south and south-western coastline of Olvana. Its headquarters is based in Guangzhou. Its mission is primarily maritime, with a focus on securing OPA's control of the South China Sea.

Its mission is to defend the southern coastline and airspace. Its port facilities support the amphibious brigades and force projection platforms. It is habitually supported by the OPAF Southern District Air Force and the Southern Naval Fleet.

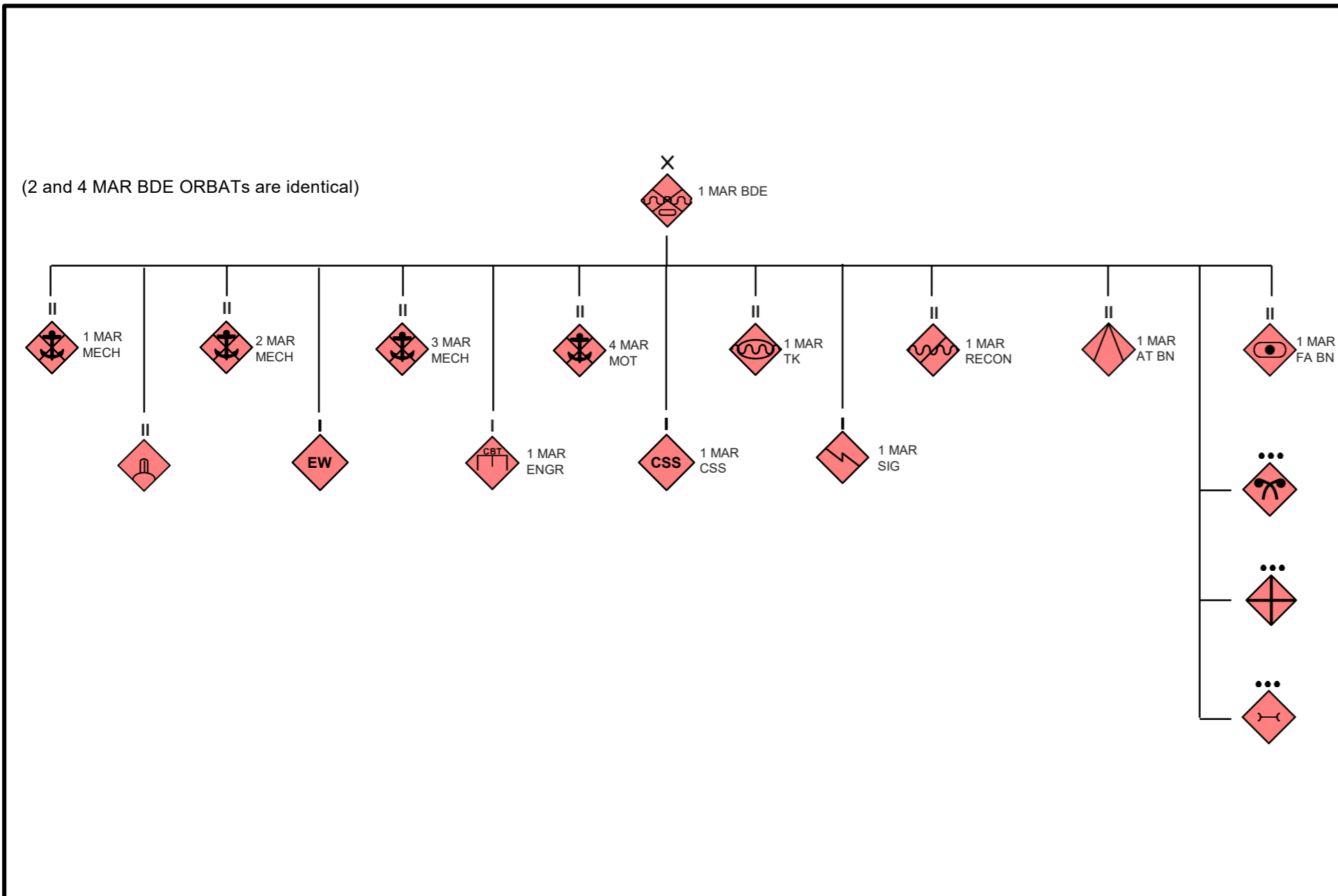
The Southern Military Theatre's task organization is suited to the terrain in which it operates. It includes three group armies, but they contain a different mixture of manoeuvre brigades than the Eastern Military Theatre. Additionally, Southern Naval Fleet includes 1 Marine Expeditionary Corps, a large formation including 6 Marine infantry brigades and other enablers based in Hanoi and Shenzhen.

# Southern Fleet Marine Expeditionary Force – Structure



# Land Component

# 1 Marine Brigade (Mechanised)



Marine Mech BN (x3)		Marine Mot BN	
ZDB-05 (ALL VARIANTS)	53	AWAITING CONFIRMATION OF MOT BN ORBAT BY US TRADOC G2	
SP MTR PLL-05 120MM	6		
KAMAZ LEER 2 JAMMER	9		
UAV SKYLARK	3		
TRK EQ2050	15		
TRK UAZ 469B	20		
MANPAD FN-6	6		
Marine Tank BN		Marine Recon BN	
IFV ZBD-05	18	TRK EQ2050	8
TNK TYPE 63A	23	KAMAZ LEER 2 JAMMER	8
TRK EQ2050	27	TRK EQ2102 C2 BUS	1
TRK CGO EQ2102	4	BOAT ZODIAC	27
KAMAZ LEER 2 JAMMER	12		
MANPAD FN-6	6		
UAV ASN-15	6		
Marine AT BN		Marine Arty BN	
ATG ZLT-05 105MM	12	SP HOW TYPE-89 122MM	18
ATGM RED ARROW12	12	MRL TYPE-90B 122MM	6
IFV ZBD-05	7	RDR SLC 2	5
KAMAZ LEER 2 JAM	11	TRK CGO EQ2102	61
TRK EQ2050	42	TRK EQ2050	78
TRK URAL 375	14		
Marine AD BN		Marine ENGR COY	
SP AAA PGZ-09 35MM	12	MINE LAY GBL 131	3
MANPAD FN-6	18	MINE LAY GBL 132	3
SAM HQ-17	6	AEV GCZ-111	3
		KAMAZ LEER 2 JAMMER	27
		MINE ROLL KMT 7	9
		AVLB MT-55A	3
		PMZ 4	3
		BRDGE GQL-111	4
		MINE CLR GSL-130	1

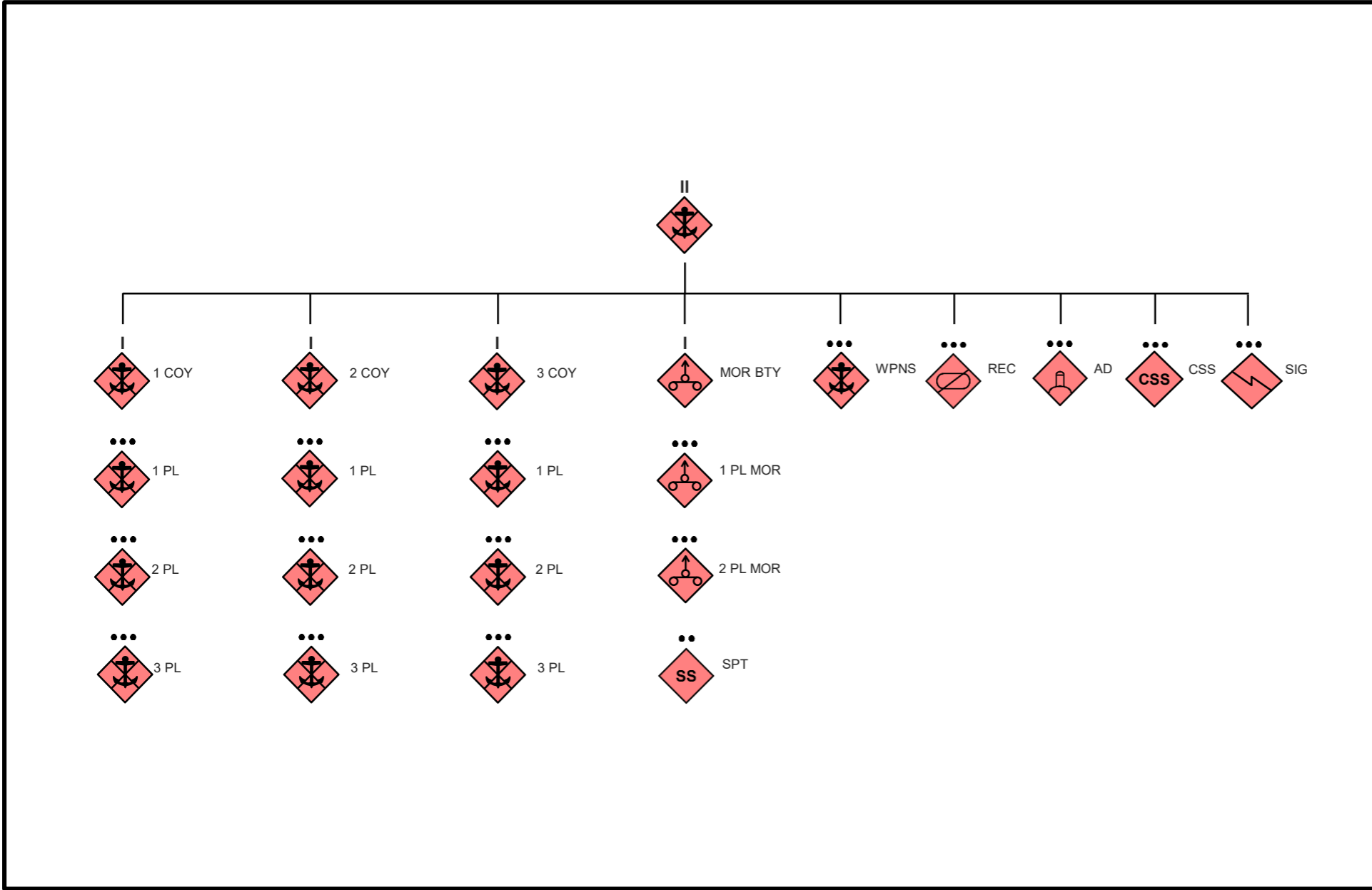
**NOTE:**

All Marine tanks, IFV, APCs are amphibious. Engineer Support Vehicles including ABV, AEV, ARV, AVLB, MT55 are not amphibious.





# Marine Battalion (Mechanised)



Mech Company (x3)		Mortar Battery	
IFV ZBD 05 TRKD 30MM	10	COMBO PLL 05 WHL 120MM	6
TRK EQ2050 12.7MM	1	TRK EQ2050	3
TRK UAZ 469B WHL DSHK	2	APC BTR 80 UNSH	1
URAL 375 DSHK	1	TRK UAZ 469B DSHK	5
KAMAZ LEER 2 JAMMER WHL	1	TRL CGO .5T TO 2T	8
TRL CGO .5T TO 2T	3		
Recon Platoon		Air Defence Platoon	
IFV ZBD 05 TRKD 30MM	2	IFV ZBD 05 TRKD 30MM	3
ARC ZBD 05 TRKD AMPHIB	1	AMPHIB	6
MOTORCYCLE (Tab data N/A)	3	<b>FN-16 MANPAD</b>	
TRK UAZ 469B WHL DSHK	1		
TRL CGO .5T TO 2T	1		
SKYLARK UAV	3		
Weapons Platoon		Signals Platoon	
APC ZBD 05 TRKD	3	ACV ZBD 05 TRKD	1
GL SNIPER 12.7MM	3	PRC MESSENGER	
GL ATGL PF 89	3	MOTORCYCLE	3
GL ATGL FHJ 84	6	TRK EQ2050	3
GL RPO	3	DONG FENG EQ2102 C2 BUS	1
		TRK UAZ 469B WHL DSHK	3
		TRL CGO .5T TO 2T	6
		GENERATOR TRL	1
Totals – Key Platforms and Signature Equipment			
AAMB ZBD 05 TRKD	4	DONG FENG EQ2102 C2 BUS	1
ACV ZBD 05 TRKD	2	IFV ZBD 05 TRKD 30MM	37
APC BTR 80 UNSH 1V152	1	KAMAZ LEER 2 JAMMER WHL	9
APC ZBD 05 TRKD	3	PRC MESSENGER	6
ARC ZBD 05 TRKD	1	MOTORCYCLE	3
ARV ZBD 05 TRKD	6	SKYLARK UAV	3
COMBO PLL 05 WHL 120MM	6	<b>FN-16 MANPAD</b>	6

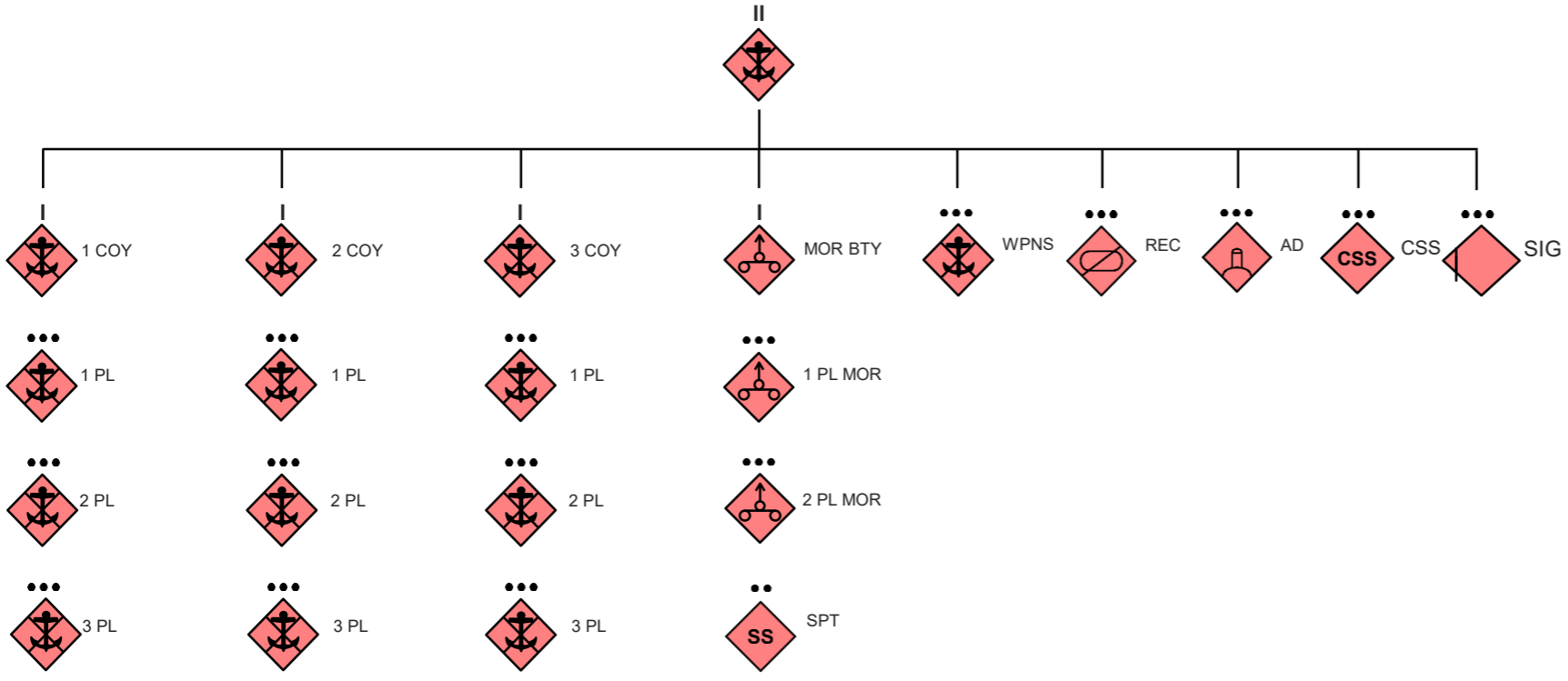
**NOTE:**

All Marine tanks, IFV, APC, are amphibious,  
Any equipment denoted in **RED** text differs from equipment depicted in ODIN unit structures

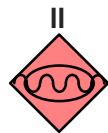


# Marine Battalion (Motorised)

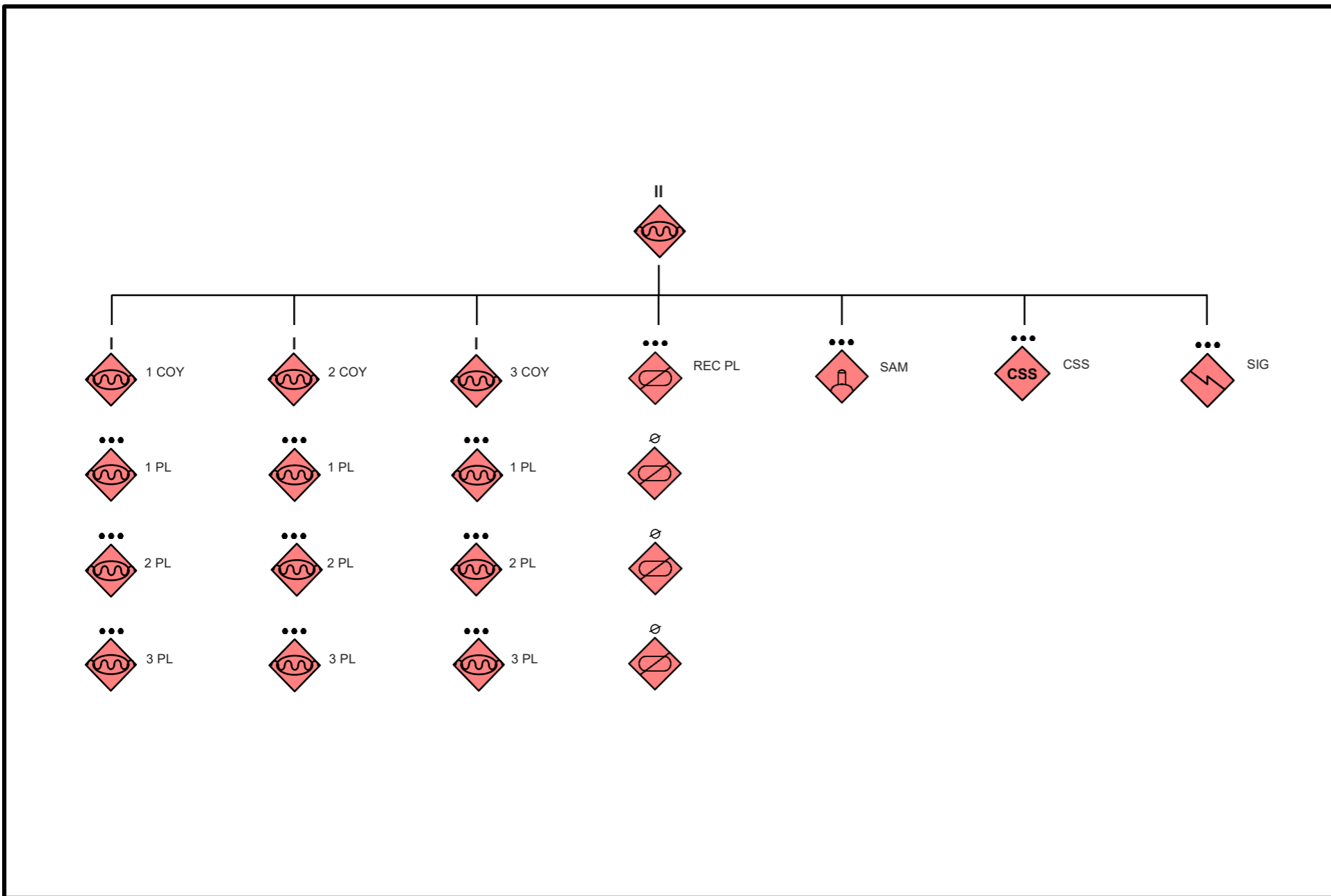
**NOTE**  
PLACEHOLDER AS AT 15 JAN 25  
AWAITING CONFIRMATION OF MOT BN ORBAT BY US TRADOC G2



Motorised Company (x3)		Mortar Battery	
Recon Platoon		Air Defence Platoon	
Weapons Platoon			



# Marine Tank Battalion

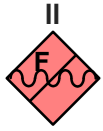


Tank Company (x3)		Recon Platoon	
TYPE 63A TANK	6	ARC ZBD 05 TRKD	3
TANK TYPE 63A ATGM	4	PRC MESSENGER	3
TANK TYPE 63A PLOW	3	MOTORCYCLE	1
TRK EQ2050	1	TRK EQ2050 DSHK	1
TRK EQ2050 DSHK	2	TRL CGO .5T TO 2T	6
URAL 375 DSHK	2	ASN15 UAV	
KAMAZ LEER 2 JAMMER WHL	2		
TRL CGO .5T TO 2T	3		
SAM Platoon		Signals Platoon	
APC ZBD 05 TRKD	3	ACV ZBD 05 TRKD AMPHIB	1
<b>FN-16 MANPAD</b>	6	PRC MESSENGER	3
		MOTORCYCLE	3
		TRK EQ2050	3
		TRK EQ2050 DSHK	1
		DONG FENG EQ2102 C2 BUS	6
		TRL CGO .5T TO 2T	1
		GENERATOR TRL	
Totals – Key Platforms and Signature Equipment			
TYPE 63A TANK	18	AAMB ZBD 05 TRKD	4
TANK TYPE 63A ATGM	14	ACV ZBD 05 TRKD	2
TANK TYPE 63A PLOW	9	APC ZBD 05 TRKD	3
PRC MESSENGER	6	ARC ZBD 05 TRKD	3
MOTORCYCLE	6	ARV ZBD 05 TRKD	6
<b>FN-16 MANPADS</b>	1	ASN15 UAV	6
DONG FENG EQ2102 C2 BUS	12		
KAMAZ LEER 2 JAMMER WHL			

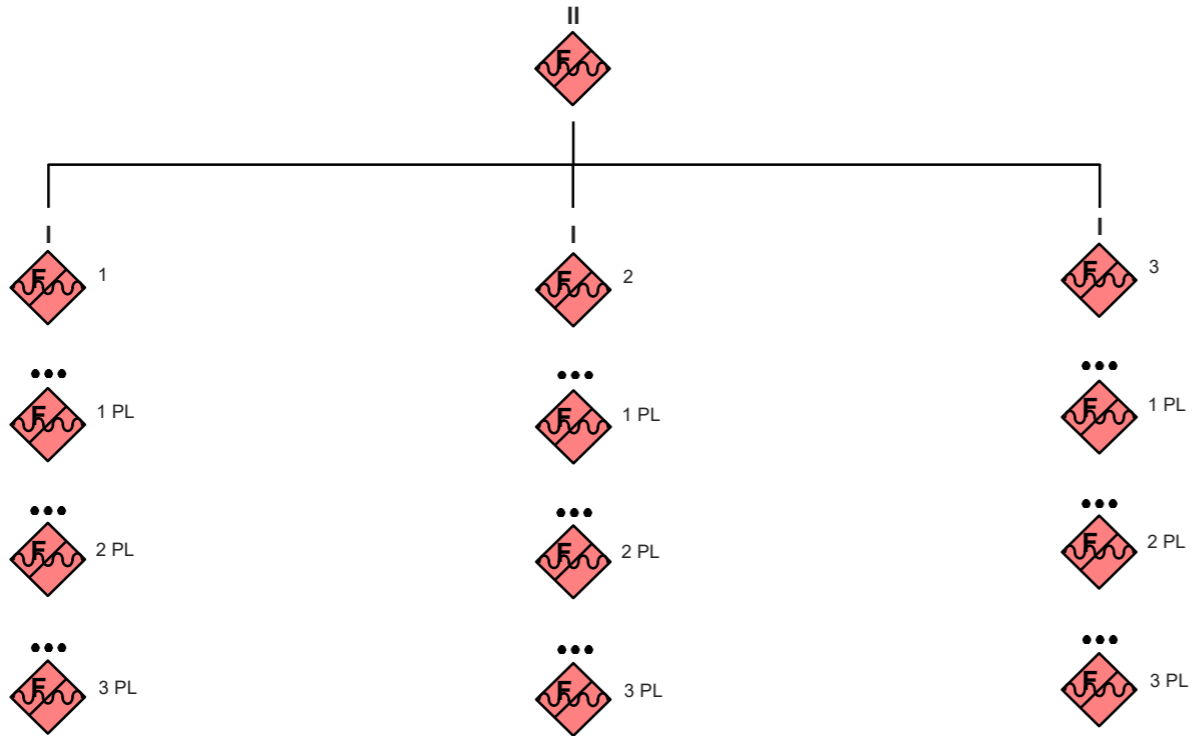
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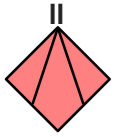
Any equipment denoted in **RED** text differs from equipment depicted in ODIN unit structures



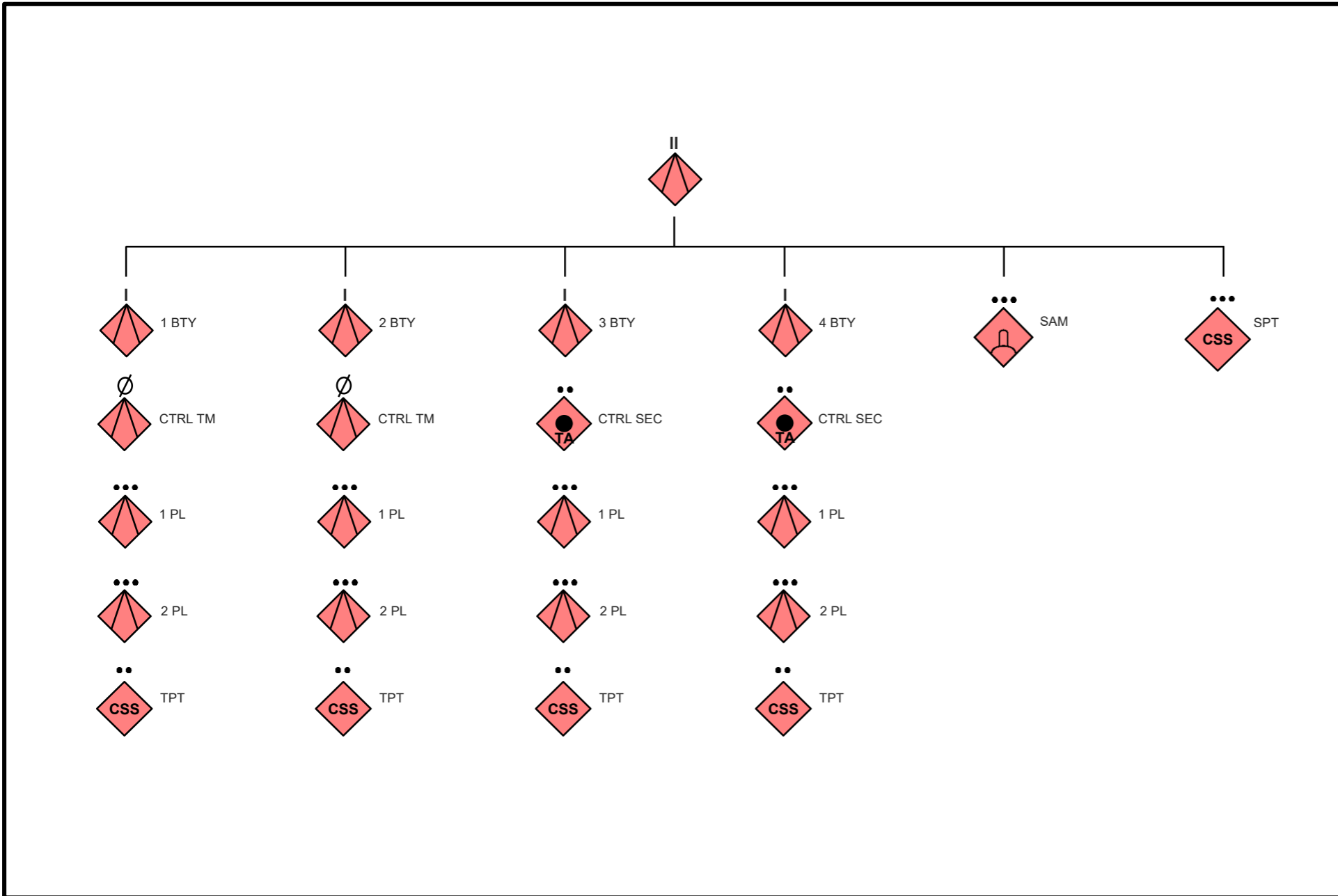
# Marine Reconnaissance Battalion



Recce Company (x3)		Recce Bn HQ	
79 pers total per company, armed with small arms only No transport, other than Coy HQ TRK EQ2050 35MM AGL KAMAZ LEER 2 JAMMER WHL	1 1	TRK EQ2050 12.7MM TRK EQ2050 35MM AGL DONG FENG EQ2102 C2 BUS KAMAZ LEER 2 JAMMER WHL	3 2 1 5

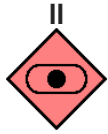


# Marine Anti-Tank Battalion

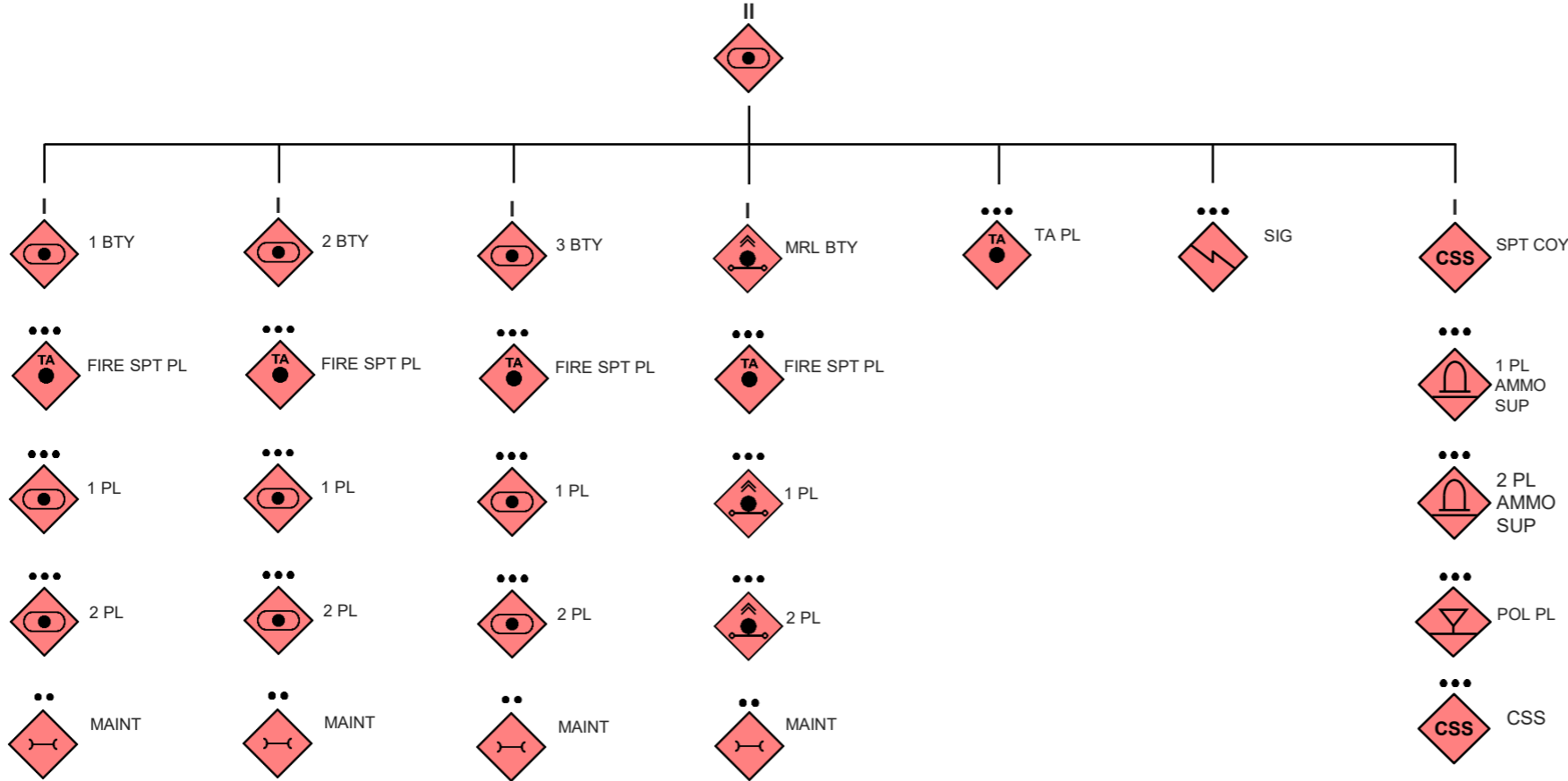


**NOTE:**

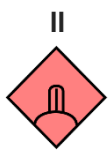
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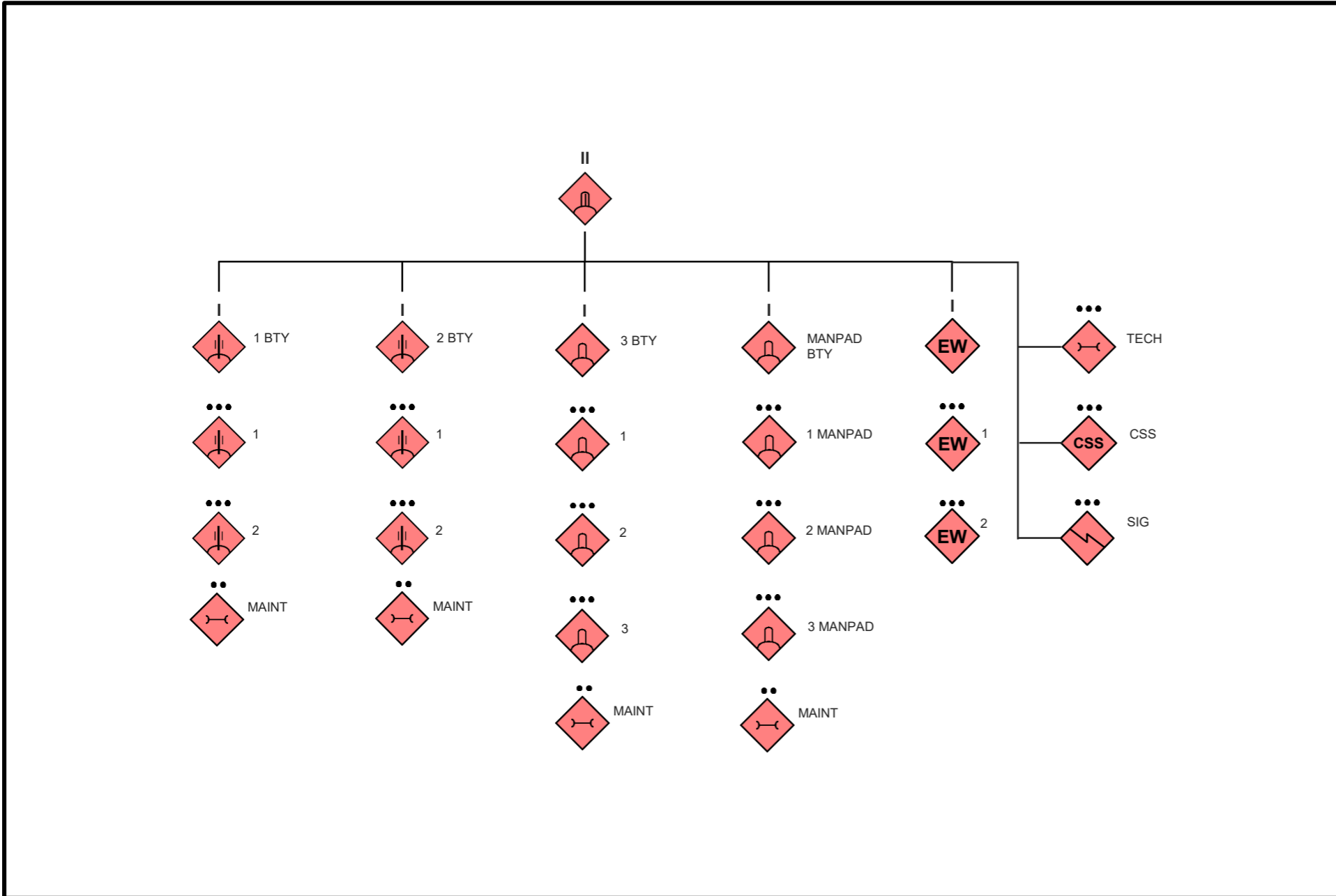
# Marine Field Artillery Battalion



SPG Battery (x3)		MRL Battery	
HOW SP TYPE 89 PLZ89 122MM	6	MRL TYPE 90B WHL 122MM	6
TRK EQ2050	6	TRK EQ2050	6
TRK EQ2050 DSHK	7	TRK EQ2050 DSHK	7
TRK CGO DONG FENG EQ2102	6	ARTY VEH RESUPPLY 9T232M	6
URAL 375 DSHK	1	URAL 375 DSHK	1
URAL 375D MAINTENANCE VAN	3	URAL 375D MAINTENANCE VAN	3
KAMAZ LEER 2 JAMMER WHL	1	KAMAZ LEER 2 JAMMER WHL	1
TRL CGO .5T TO 2T	15	TRL CGO .5T TO 2T	15
GENERATOR TRL	1	GENERATOR TRL	1
BL 904 ST RADAR	1	BL 904 ST RADAR	1
SLC 2 ST RADAR	1	SLC 2 ST RADAR	1
TA Platoon		Support Company	
GENERIC VAN CGO MED WHL	1	TRK EQ2050	11
TRK EQ2050 DSHK	1	TRK CGO DONG FENG EQ2102	42
TRK EQ2050 WHL 5.8MM MG	3	SX2150 FUEL TANKER	4
RDR CB GM 5951 IL220 TRKD	1	URAL 375 DSHK	1
GAZ 69T SURVEY TRK	2	URAL 375D MTCE VAN	3
AKZ 7 SOUND RANGING VAN	1	URAL 375D 6X6 WRECKER	3
TRL CGO .5T TO 2T	6	KAMAZ LEER 2 JAMMER WHL	10
GENERATOR TRL	1	CRANE KRAZ 255 WHL PKM	6
		TRL CGO .5T TO 2T	32
		POL POD TRL 4200L	10
Totals – Key Platforms and Signature Equipment			
AKZ 7 SOUND RANGING VAN	1	POL POD TRL 4200L	10
ARTY VEH RESUPPLY 9T232M	6	PRC MESSENGER MOTORCYCLE	3
ARV TYPE 653A TRKD	3	RDR CB GM 5951 IL220 TRKD	1
BL 904 ST RADAR	5	SLC 2 ST RADAR	5
DONG FENG EQ2102 C2 BUS	1	SX2150 FUEL TANKER	4
GAZ 69T SURVEY TRK	2	TRK CGO DONG FENG EQ2102	61
HOW SP TYPE 89 PLZ89 122MM	18	TRK EQ2050 (VARIOUS WPNS)	78
KAMAZ LEER 2 JAMMER WHL	15	URAL 375 DSHK	5
MRL TYPE 90B WHL 122MM	6	URAL 375D 6X6 WRECKER	3
TYPE 89 ACV	2	URAL 375D MTCE VAN	15



# Marine Air Defence Battalion



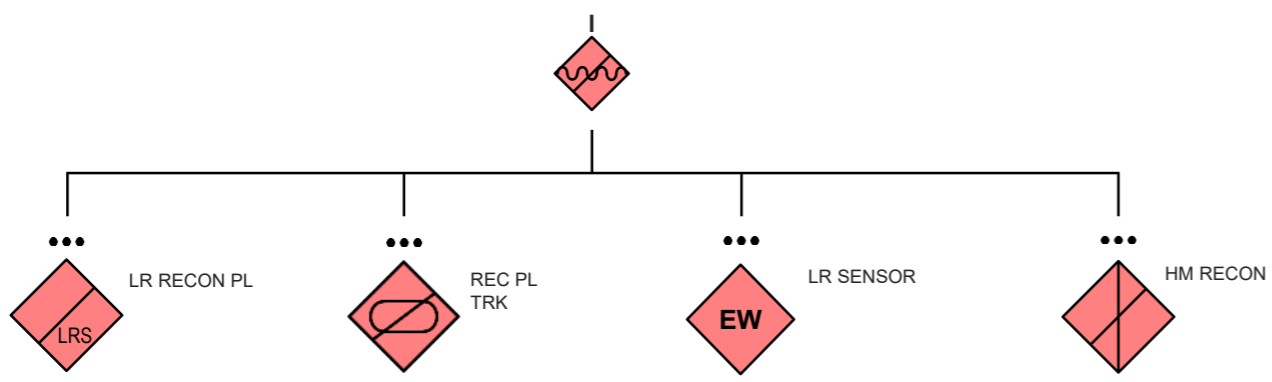
SP AAA Battery (x2)		SHORAD Battery	
35MM SP AAA PGZ 07	6	TRK EQ2050 (SOME W/DSHK)	7
TRK EQ2050 (SOME W/DSHK)	7	HQ 17 CSA15 SAM LAUNCHER	6
ACV CLC 2B TRKD	1	URAL 375 DSHK	1
RDR TA CLC 2B TRKD	1	SA 15 BTY C3 VEHICLE 9S737	1
URAL 375 DSHK	1	SA 15 TRANSLOADER	9
URAL 375D MTCE VAN	1	SA 15 MTCE VEH	3
MANPAD Battery		EW Battery	
ZBD 04 AIFV	10	ZBD 04 AIFV	2
TRK EQ2050 (SOME W/DSHK)	7	TRK EQ2050 DSHK	8
URAL 375 DSHK	1	URAL 375 DSHK	1
URAL 375D MTCE VAN	3	RDR EW 106 HGR	2
<b>FN-16 MANPAD</b>	<b>18</b>		
Totals – Key Platforms and Signature Equipment			
35MM SP AAA PGZ 07	12	SA 15 BTY C3 VEHICLE 9S737	1
HQ 17 CSA 15 SAM LAUNCHER	6	SA 15 MTCE VEH	3
FN-16 MANPAD	18	SA 15 TRANSLOADER	9
ACV CLC 2B TRKD	2	TRK EQ2102 (SOME W/MG)	18
AP 16D EW RADAR	1	TRK EQ2050 (SOME W/DSHK)	57
ARV TYPE 653A TRKD	3	URAL 375 DSHK	5
DONG FENG EQ2102 C2 BUS	1	URAL 375D 6X6 WRECKER	3
GAZ 69 4X4 CMD VEHICLE	1	URAL 375D MTCE VAN	20
POL POD TRL 4200L	4	ZBD 04 AIFV	12
PRC MESSENGER			
MOTORCYCLE	3		
RDR EW 106 HGR	2		
RDR TA CLC 2B TRKD	2		

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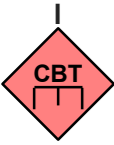


# Marine Reconnaissance Company

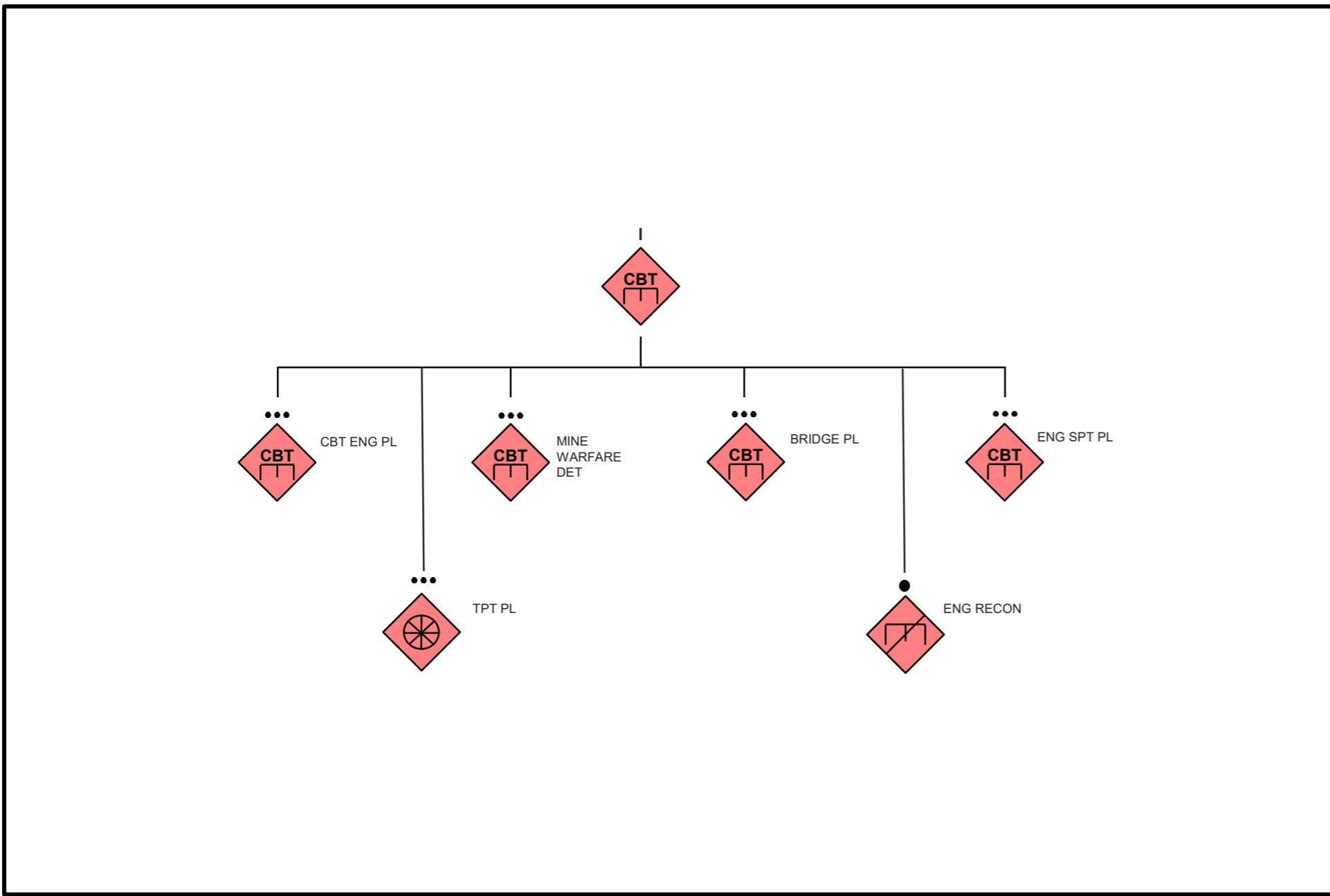


LR Recon Platoon		Recon Platoon, Tracked	
ARC ZBD 05 TRKD	4	IFV ZBD 05 TRKD 30MM	2
		ARC ZBD 05 TRKD	1
		FARA GND SVLNC RDR	3
LR Sensor Platoon		High Mobility Recon	
HJ 62C	2	PRC MESSENGER	9
ACV ZBD 05 TRKD	1	MOTORCYCLE	3
TRK EQ2050 WHL 5.8MM MG	4	TRK EQ2050 DSHK	3
TRL CGO .5T TO 2T	4	TRL CGO .5T TO 2T	3
		STRUNA 1 BISTATIC RADAR	3
		FARA GND SVLNC RDR	8
Totals – Key Platforms and Signature Equipment			
ACV ZBD 05 TRKD	2	STRUNA 1 BISTATIC RADAR	3
ARC ZBD 05 TRKD	6	TRK EQ2050	5
HJ 62C	2	TRK EQ2050 WHL 5.8MM MG	4
IFV ZBD 05 30MM	2	TRL CGO .5T TO 2T	9
KAMAZ LEER 2 JAMMER WHL	2	URAL 375 DSHK	2
PRC MESSENGER	9		
MOTORCYCLE			



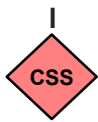


# Marine Engineer Company

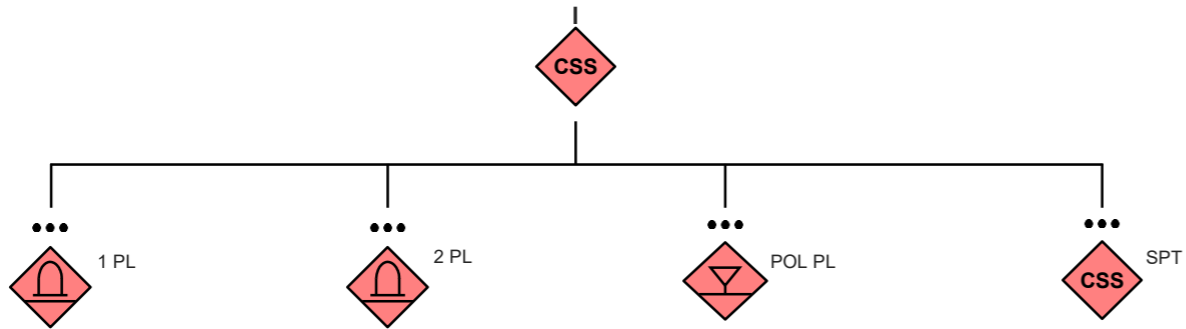


Combat Engineer Platoon		Bridge Platoon	
IFV ZBD 05 30MM	6	TRK EQ2050 12.7MM	1
TRK EQ2050 35MM AGL	1	TRK BRIDGE GQL 111	4
TRL CGO .5T TO 2T	1	SCISSOR	3
		MT 55A AVLB	1
		TRL CGO .5T TO 2T	
Engineer Recon			
IFV ZBD 05 30MM	1		
AAMB ZBD 05 TRKD	1		
Engineer Support Platoon		Mine Warfare Platoon	
GENERIC FRONT LOADER TRKD	2	TRK EQ2050 12.7MM/5.8MM	4
TRK EQ2050 (VARIOUS WPNS)	4	TRK CGO EQ2102 (4 W MG)	19
TRK CGO DONG FENG EQ2102	2	GBL 132 MINE LAYER	3
AEV GCZ 111 WHL	2	GBL 131 MINE LAYER	3
TRK TRENCH GJW410 TRKD	4	GSL 130 MINECLEARING VEH	1
URAL 375D MAINTENANCE VAN	1	AEV GCZ 111 WHL	1
KAMAZ LEER 2 JAMMER WHL	2	TRK UAZ 469B MINE DETECTOR	1
TRL CGO .5T TO 2T	3	PMZ 4	3
CRANE SHOVEL 305V	2	KAMAZ LEER 2 JAMMER WHL	16
GENERATOR TRL	1	TRL CGO .5T TO 2T	4
Totals – Key Platforms and Signature Equipment			
AEV GCZ 111 WHL	3	TRK CGO EQ2102 WHL	29
CRANE SHOVEL 305V	2	TRK CIV CREW CAB WHL	2
GBL 131 MINE LAYER	3	TRK DUMP KRAZ 255 WHL	2
GBL 132 MINE LAYER	3	TRK EQ2050 (VARIOUS WPNS)	17
GSL 130 MINECLEARING VEH	1	TRK TRENCH GJW410 TRKD	4
IFV ZBD 05 30MM AMPHIB	8	TRK UAZ 469B MINE DETECTOR	1
KAMAZ LEER 2 JAMMER WHL	27	URAL 375 DSHK	1
MINE ROLLER KMT 7	9	URAL 375D MAINTENANCE VAN	1
MT 55A AVLB	3		
PMZ 4	3		
TRK BRIDGE GQL 111 SCISSOR	4		

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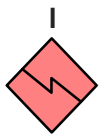


# Marine Materiel Support Company

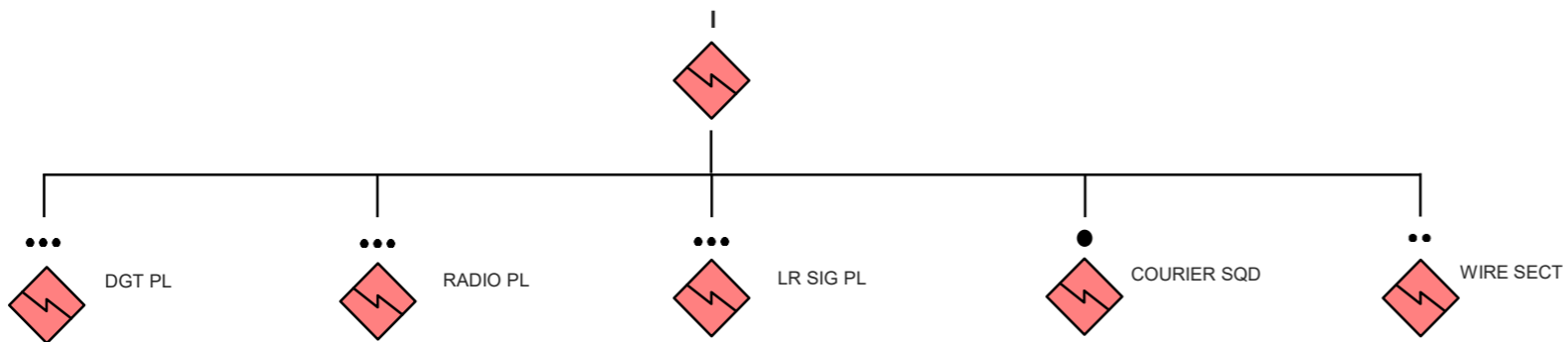


Materiel Support Platoon (x2)		POL Platoon	
TRK EQ2050	1	TRK EQ2050	1
TRK CGO DONG FENG EQ2102	10	TRK CGO DONG FENG EQ2102	10
KAMAZ LEER 2 JAMMER WHL	10	SX2150 FUEL TANKER	4
CRANE KRAZ 255 WHL PKM	2	TRL CGO .5T TO 2T	1
TRL CGO .5T TO 2T	1	POL POD TRL 4200L	6
Support Platoon			
AAMB ZBD 05 TRKD AMPHIB	3		
ARV ZBD 05 TRKD AMPHIB	3		
TRK EQ2050	4		
TRK CGO EQ2102 W MG	12		
URAL 375D MAINTENANCE VAN	3		
URAL 375D 6X6 WRECKER	3		
KAMAZ LEER 2 JAMMER WHL	10		
CRANE KRAZ 255 WHL PKM	2		
TRK WATER KRAZ 255B 9500L	2		
TRL CGO .5T TO 2T	4		
POL POD TRL 4200L	4		
TRL WATER 1200 L ACMAT ALM	2		
GENERATOR TRL	2		

**NOTE:**  
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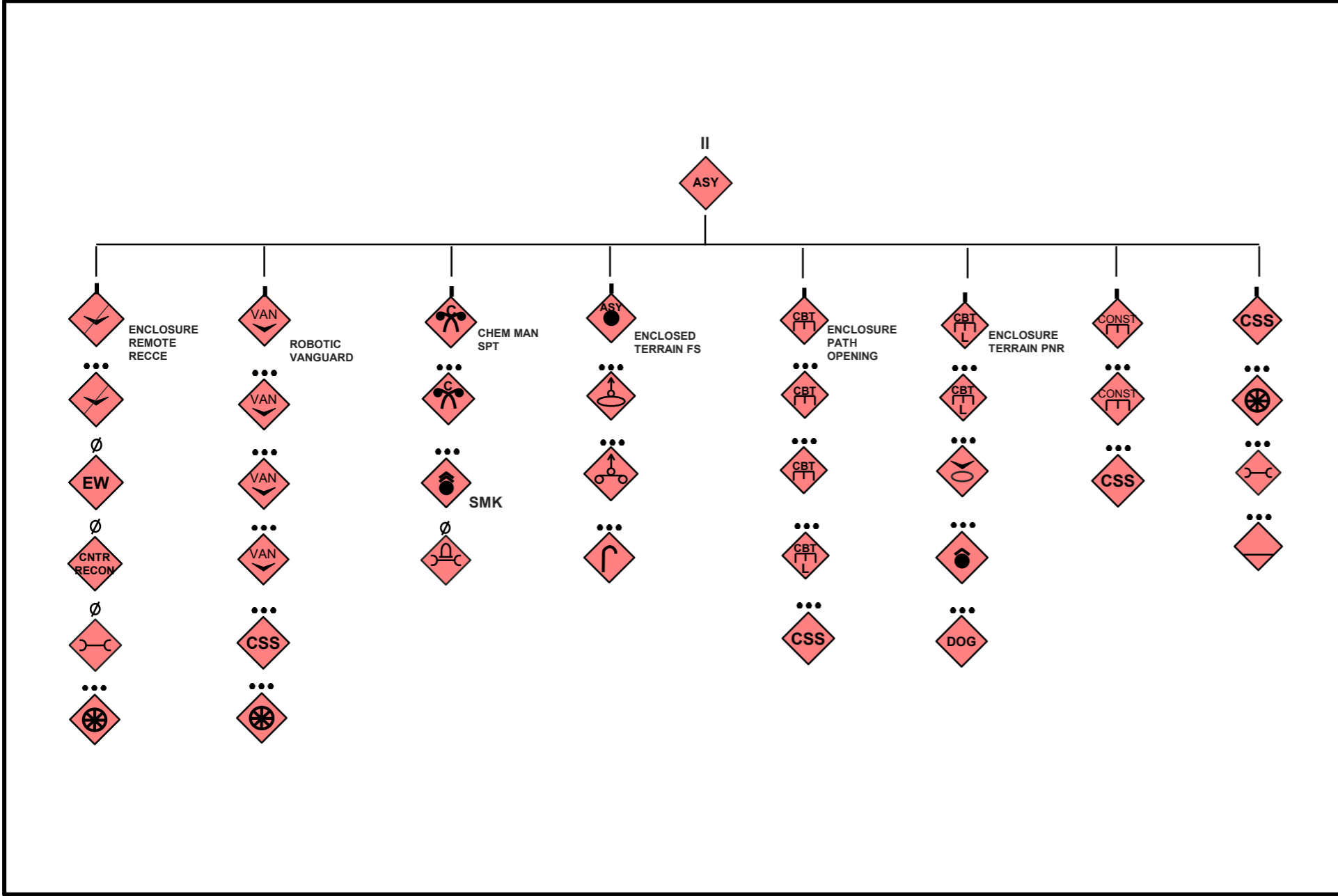
# Marine Signal Company



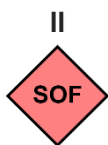
Digital Platoon		Radio Platoon	
ACV ZBD 05 TRKD AMPHIB	3	ACV ZBD 05 TRKD AMPHIB	5
TRK EQ2050	3	TRK EQ2050	5
TRK EQ2050 12.7MM	1	TRK EQ2050 12.7MM	6
TRL CGO .5T TO 2T	4	DONG FENG EQ2102 C2 BUS	5
		TRL CGO .5T TO 2T	11
		GENERATOR TRL	5
LR Signals Platoon		Courier Squad	
TRK EQ2050 12.7MM	3	PRC MESSENGER MOTORCYCLE	3
DONG FENG 2012 SATCOM	2		
DONG FENG EQ2102 C2 BUS	5		
EQ2102 RADIO RELAY STATION	3		
TRL CGO .5T TO 2T	7		
GENERATOR TRL	6		
Wire Section			
TRK EQ2050	1		
TRK EQ2050 12.7MM	1		
TRL CGO .5T TO 2T	2		



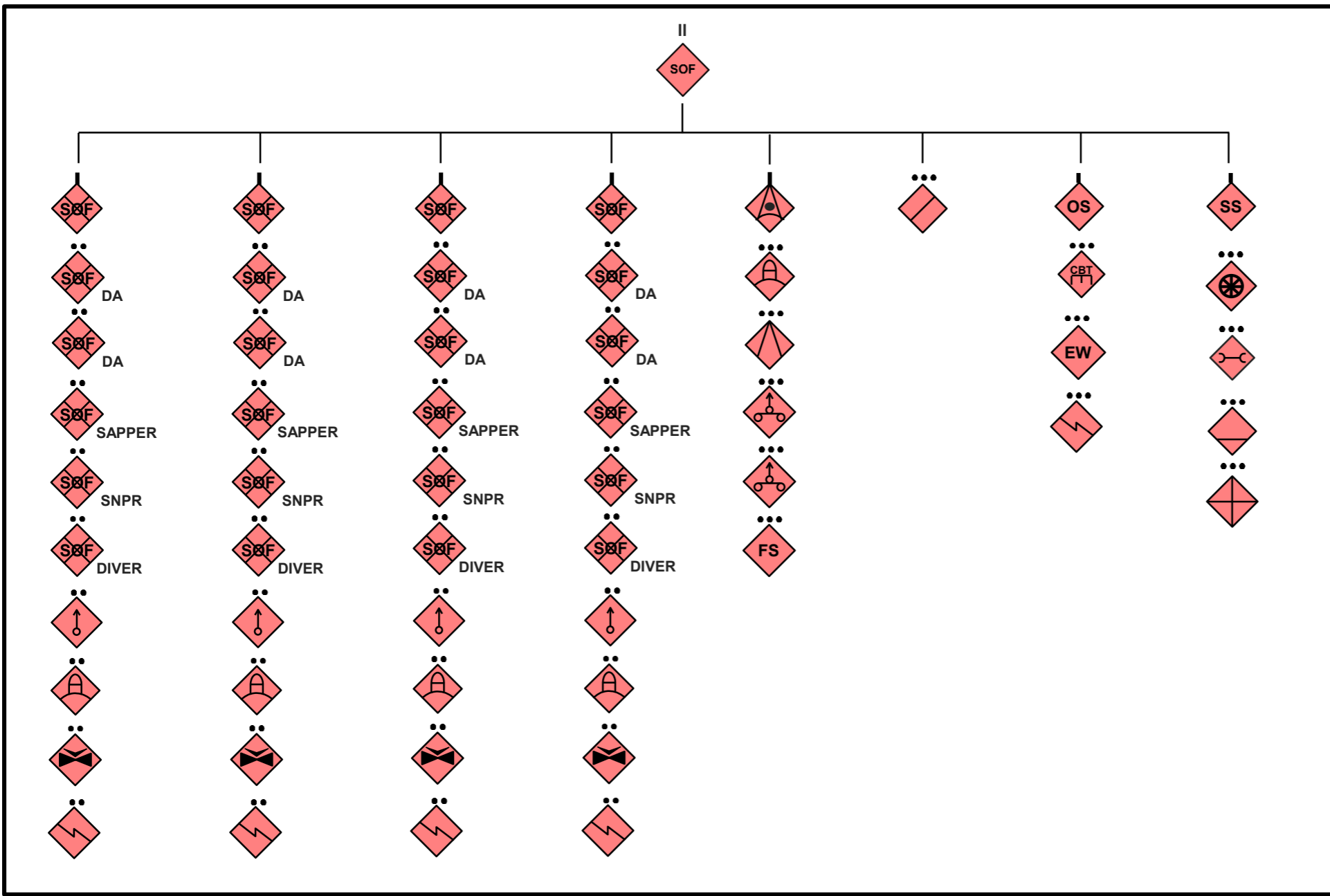
# Asymmetric Warfare Battalion



Enclosure Recce Coy		Robotic Vanguard Coy	
CSVP4 ATV	8	VN-17 HIFV CNTR VEH	3
SHARP CLAW 2 UGV	6	SHARP CLAW 2 UGV	3
SHARP CLAW 1 UGV	6	SHARP CLAW 1 UGV	3
SAW TIGER 4X4 UGV	6	SAW TIGER 4X4 UGV	3
ZHANFU H16 UAS	8	QBZ-95 5.8MM	100
	4	QLG-10A UBGL	33
MDM LOG MULTIROTOR		QBB-95 5.8MM LMG	6
GOLDEN EAGLE MULTIROTOR	8	DONGFENG 6X6 VEH	9
QBZ-96 5.8MM	60	ZHANFU H16 ARMD UAS	3
QLG-10A UBGL	18	GOLDEN EAGLE MULTIROTOR	3
QBB-95 5.8MM LMG	10	SHAANTI 8X8 TRK	11
Chemical Man Spt Coy		Enclosed Terrain FS Coy	
VN-17 HIFV SAW	2	ZHANFU H16 ARMD MULTIROTOR	4
TIGER 4X4 UGV	2	TYULPAN 240MM SP MTR	2
62MM MBRL	4	PCZ-45	2
130MM MBRL	4	M240 240MM MTR	2
SMK LNCHER 6X6	4	TOS 1A 220MM MBRL	3
	4		
Enclosed Path Coy		Enclosed Terrain Pnr Coy	
GSL 133 MINE	2	SHARP CLAW 1 UGV	8
BREACH AFV	2	SHARO CLAW 2 UGV	4
YW306 130MM MBRL	2	TETHERED UAS	16
GCZ-110 EBGR VEH	2	130MM LNCH HOSE EXPL	4
	2	EXPL DET DOG	18
Engr Const Coy		CSS Coy	
GCZ-112 ENG VEH	2	SHAANTI 8X8 TRK	6
UZV ARMD DOZER	2	SHAANTI 6X6 TRK	8
CSK-131 4X4 VEH EXCAVATOR	2	TAIAN TA-4360 TNK TPT	4
TRACTOR BACKHOE	1		
TRACTOR DOZER	3		



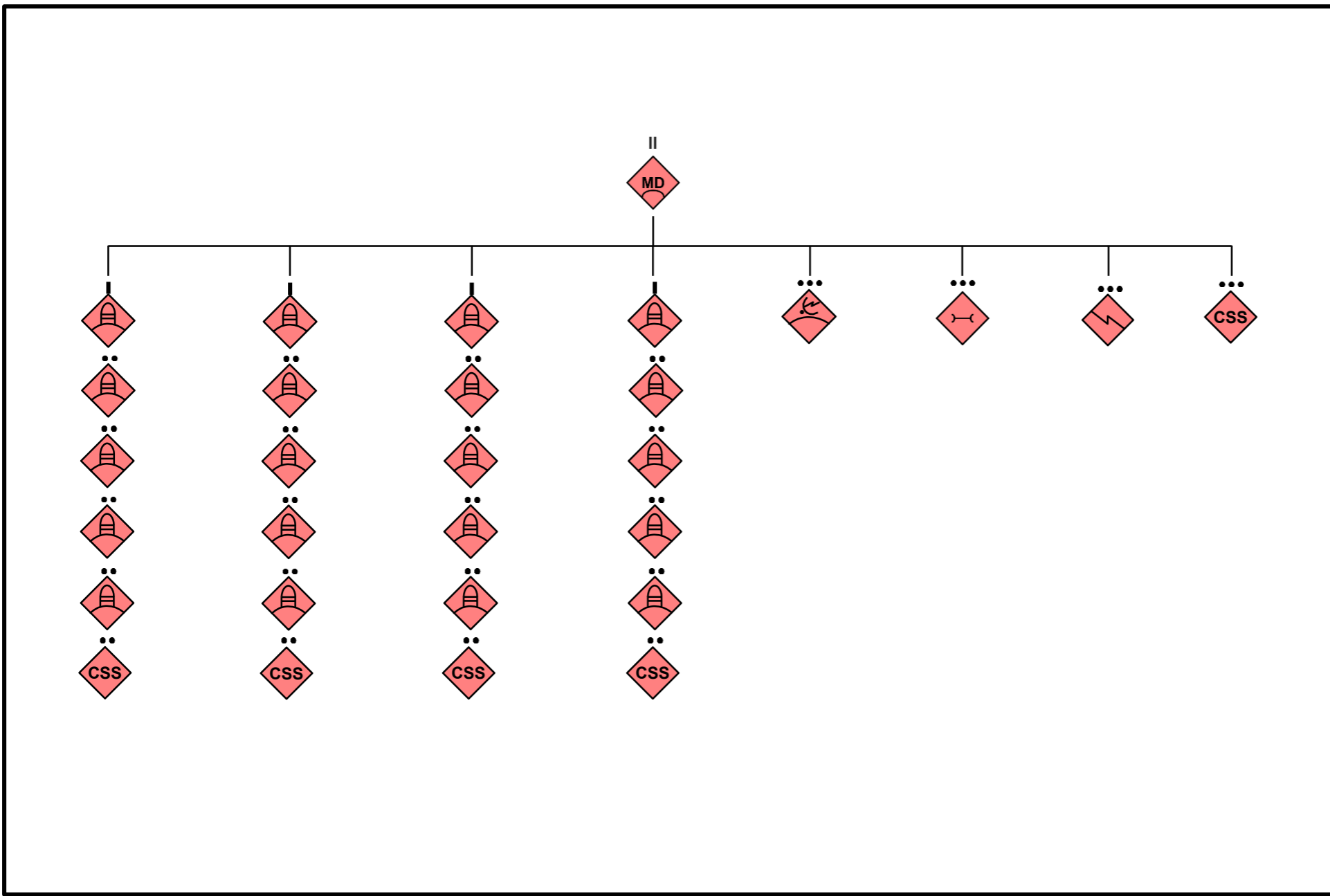
# Special Operations Battalion



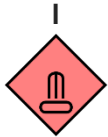
SOF Company (x4)		Firepower Company	
TRK EQ2050	17	MTR SM1 81MM	12
TRK EQ2050 DSHK	16	APC ZSL-92	10
TRK EQ2050 AGL	21	ATGM PF-98	6
TRK FAW MV3 6x6	8	MANPAD QW-18	6
ZODIAC	6	TRK FAW MV3 6x6	2
MANPAD WQ-18	3	TRK NJ2046 W-85 12.7MM	2
ASN216 UAV	8	TRL CGO GAZ 704 .5T	5
MTR 60MM	3	TRL CGO 2T TO 5T	6
		GENERIC TRL 1.5T	3
Recon Platoon		OPS Support Company	
REC, ZBL-08R UAV, CH-1 RDR, BS903A RDR, JY-17A RDR, ST-312	3 1 1 1 1	TRK EQ2050	6



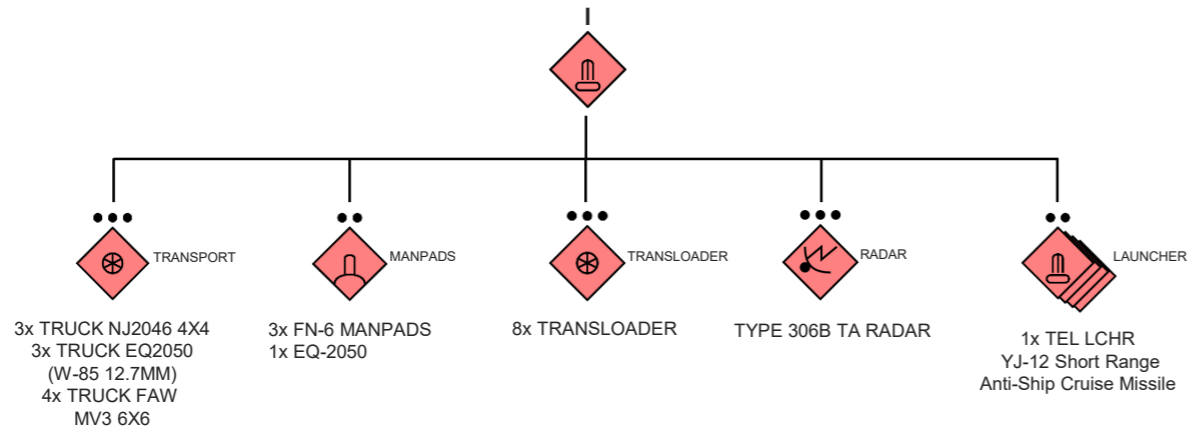
# Missile Defence Battalion



AD Battery (x4)			
HQ-9 TEL	4		
TRK FAW MV3 6x6	4		
TRK EQ2050 W-85 12.7MM	3		
TRK NJ2046 4x4	4		
RDR, HT-233	1		



# Coastal Defence Cruise Missile Battery



CDCM Battery			
YJ-12 ASCM TEL	4		
FN-6 MANPAD	3		
TRK FAW MV3 6x6	3		
TRK EQ2050 W-85 12.7MM	3		
TRK NJ2046 4x4	3		
TRANSLOADER	8		
TYPE 306B TA RADAR	1		

# Direct Fire Support

## Tracked Amphibious Assault Gun ZLT-05 (Marine Bde)

**Date of Introduction:** 2006

**Main Weapon System:** 105 mm Rifled Gun, ATGM GP2

**Auxiliary Weapon System:** 12.7 mm Machine Gun

**Effective Range:** 105mm: 3,000m, ATGM: 4,000m

**Crew:** 4

**Passengers:** N/A



## MBT, Type-96B (Heavy Bde)

**Date of Introduction:** 2016

**Main Weapon System:** 125mm Smoothbore Gun.

**Coaxial Weapon System:** 7.62mm General-Purpose Machine Gun.

**Auxiliary Weapon System:** 12.7mm Heavy Machine Gun.

**Maximum Range:** HE: 4,000m – HEAT: 3,000m – 3VBM/3BM69: 3,000m

**Crew:** 3



## MBT, Type-63A (Marine Bde)

**Date of Introduction:** 2000

**Main Weapon System:** 105mm Rifled Gun & ATGM GP150.

**Coaxial Weapon System:** 7.62mm General-Purpose Machine Gun.

**Auxiliary Weapon System:** 12.7mm Heavy Machine Gun.

**Maximum Range:** HE: 3,000m, APFSDS: 2,000m, GP150 ATGM: 4,000m

**Crew:** 4



## MBT, Type-99A2 (Heavy Bde)

**Date of Introduction:** 2004

**Main Weapon System:** 125mm Smoothbore Gun.

**Coaxial Weapon System:** 7.62mm General-Purpose Machine Gun.

**Auxiliary Weapon System:** 12.7mm Heavy Machine Gun.

**Maximum Range:** HE: 4,000m – HEAT: 5,000m

**Crew:** 3





# Infantry Fighting Vehicles

<p><b>IFV, ZSL-92 (Light Bde)</b>  <b>Date of Introduction:</b> 1995  <b>Main Weapon System:</b> 25mm Autocannon  <b>Auxiliary Weapon System:</b> 25mm Autocannon  <b>Maximum Range:</b> 1,500m  <b>Crew:</b> 2  <b>Passengers:</b> 11</p>		<p><b>IFV, ZBD-04A (Heavy Bde)</b>  <b>Date of Introduction:</b> 2011  <b>Main Weapon System:</b> 100mm gun/missile launcher  <b>Auxiliary Weapon System:</b> 25mm Autocannon  <b>Maximum Range:</b> HE: 4,000m – PFHE: 7,000m  <b>Crew:</b> 3  <b>Passengers:</b> 7</p>	
<p><b>IFV, ZBD-05 (Marine Bde)</b>  <b>Date of Introduction:</b> 2005  <b>Main Weapon System:</b> (Lt Tank) 105 mm Gun/ (IFV) 30 mm Autocannon  <b>Auxiliary Weapon System:</b> 12.7 mm Machine Gun  <b>Effective Range:</b> 105mm: 2,400m - 30mm: 1,500m  <b>Crew:</b> 4 (Lt Tank)/ 3 (IFV)  <b>Passengers:</b> 8</p>		<p><b>IFV, VN17 (Heavy Bde)</b>  <b>Date of Introduction:</b> 2017  <b>Main Weapon System:</b> 30mm Autocannon  <b>Auxiliary Weapon System:</b> Red Arrow-12 ATGM  <b>Maximum Range:</b> 30mm: 1,500m – ATGM: 4,000m  <b>Crew:</b> 3  <b>Passengers:</b> 7</p>	
<p><b>IFV, ZBL-08 (Medium Bde)</b>  <b>Date of Introduction:</b> 2009  <b>Main Weapon System:</b> 105mm Rifled Tank Gun  <b>Auxiliary Weapon System:</b> 7.62mm Machine Gun  <b>Maximum Range:</b> 4,000m  <b>Crew:</b> 2  <b>Passengers:</b> 7-10</p>		<p><b>IFV, ZBD-03 (Airborne Bde)</b>  <b>Date of Introduction:</b> 2010  <b>Main Weapon System:</b> 30mm Autocannon  <b>Auxiliary Weapon System:</b> NA  <b>Maximum Range:</b> AP: 2,800m – HE: 5,000m  <b>Crew:</b> 2  <b>Passengers:</b> 5</p>	

# Anti-Tank Systems

**AG, PTL-02 (Light Bde)**  
**Date of Introduction:** 1995  
**Main Weapon System:** 100mm AT Gun  
**Auxiliary Weapon System:** 12.7mm Heavy Machine Gun  
**Maximum Range:** HE: 8,200m – AP: 3,000m  
**Crew:** 5



**ATGM, ZBD-04A w/ HJ-9/10 (Heavy Bde)**  
**Date of Introduction:** 2014  
**Main Weapon System:** HJ-9/10 Red Arrow  
**Auxiliary Weapon System:** NA  
**Minimum Range:** HJ-10: 2,000m  
**Maximum Range:** HJ-9: 5,500m – HJ-10: 8,000m  
**Crew:** 3



**AT, Type-86 (Light Bde)**  
**Date of Introduction:** 1961  
**Main Weapon System:** 100mm AT Gun  
**Auxiliary Weapon System:** NA  
**Maximum Range:** 1,800m **Crew:** 6



**ATGM, ZSL-92 w/ HJ-9 (Artillery Bde)**  
**Date of Introduction:** 1995  
**Main Weapon System:** 30mm Autocannon  
**Auxiliary Weapon System:** HJ-9 Red Arrow  
**Maximum Range:** 30mm: 1,500m – HJ-9: 5,500m  
**Crew:** 5









**AG, ZTL-11 (Medium Bde)**  
**Date of Introduction:** 2008  
**Main Weapon System:** 105mm Rifled Tank Gun  
**Auxiliary Weapon System:** 7.62mm Machine Gun  
**Maximum Range:** 2,000m  
**Crew:** 4









**ATGM, ZBD-03 w/ HJ-8 (Airborne Bde)**  
**Date of Introduction:** 2010  
**Main Weapon System:** 30mm Autocannon  
**Auxiliary Weapon System:** HJ-9 Red Arrow  
**Maximum Range:** AP: 2,800m – HE: 5,000m – HJ-8: 4,000m  
**Crew:** 5



# Other Manoeuvre Systems

<p><b>LUV, EQ2050</b>  <b>Date of Introduction:</b> 2007  <b>Main Weapon System:</b> Varies  <b>Auxiliary Weapon System:</b> Varies  <b>Maximum Range:</b> Varies  <b>Crew:</b> 1  <b>Passengers:</b> 3</p>		<p><b>MTR, SM1 (81mm)(Light / Airborne Bde)</b>  <b>Date of Introduction:</b> 2014  <b>Main Weapon System:</b> 81mm Mortar  <b>Auxiliary Weapon System:</b> NA  <b>Maximum Range:</b> 8km  <b>Crew:</b> 4</p>	
<p><b>APC, Tiger 2065</b>  <b>Date of Introduction:</b> 2007  <b>Main Weapon System:</b> 12.7mm Heavy Machine Gun  <b>Auxiliary Weapon System:</b> NA  <b>Maximum Range:</b> 2,000m <b>Crew:</b> 2  <b>Passengers:</b> 3</p>		<p><b>MTR, PLL-05 (120mm)(Medium Bde)</b>  <b>Date of Introduction:</b> 2003  <b>Main Weapon System:</b> 120mm Mortar  <b>Auxiliary Weapon System:</b> 12.7mm Heavy Machine Gun  <b>Maximum Range:</b> HE: 9.5km – RAP: 13.5km  <b>Crew:</b> 4</p>	
<p><b>ASC, CS/VN3</b>  <b>Date of Introduction:</b> 2007  <b>Main Weapon System:</b> 12.7mm Heavy Machine Gun  <b>Auxiliary Weapon System:</b> NA  <b>Maximum Range:</b> 2,000m <b>Crew:</b> 2  <b>Passengers:</b> 3</p>		<p><b>MTR, YW382 (120mm)(Heavy Bde)</b>  <b>Date of Introduction:</b> 2011  <b>Main Weapon System:</b> 120mm Mortar  <b>Auxiliary Weapon System:</b> 7.62mm Machine Gun  <b>Maximum Range:</b> HE: 9.5km – RAP: 13.5km  <b>Crew:</b> 4</p>	

# Field Artillery Systems

<p><b>SPG, PCL-09 (122mm)(Light Bde)</b>  <b>Date of Introduction:</b> 2010  <b>Main Weapon System:</b> 122mm Howitzer  <b>Auxiliary Weapon System:</b> NA  <b>Maximum Range:</b> HE: 18km – RAP: 27km  <b>Crew:</b> 5</p>		<p><b>SPH, PLZ-52 (155mm)(Heavy Bde)</b>  <b>Date of Introduction:</b> 2014  <b>Main Weapon System:</b> 155mm Howitzer  <b>Auxiliary Weapon System:</b> 12.7mm Heavy Machine Gun  <b>Maximum Range:</b> HE: 30km – RAP: 40km  <b>Crew:</b> 5</p>	
<p><b>HOW, PL-96 (122mm)(Light Bde)</b>  <b>Date of Introduction:</b> 1996  <b>Main Weapon System:</b> 122mm Howitzer  <b>Auxiliary Weapon System:</b> NA  <b>Maximum Range:</b> HE: 18km – RAP: 27km  <b>Crew:</b> 5</p>		<p><b>SPG, SH-2 (122mm)(Airborne Bde)</b>  <b>Date of Introduction:</b> 2007  <b>Main Weapon System:</b> 122mm Howitzer  <b>Auxiliary Weapon System:</b> NA  <b>Maximum Range:</b> HE: 18km – RAP: 27km  <b>Crew:</b> 5</p>	
<p><b>SPG, PLL-09 (122mm)(Medium Bde)</b>  <b>Date of Introduction:</b> 2009  <b>Main Weapon System:</b> 122mm Howitzer  <b>Auxiliary Weapon System:</b> 12.7mm Heavy Machine Gun  <b>Maximum Range:</b> HE: 18km – RAP: 27km  <b>Crew:</b> 4</p>		<p><b>SPH, PLZ-05 (155mm)(FA Bde)</b>  <b>Date of Introduction:</b> 1991  <b>Main Weapon System:</b> 155mm Howitzer  <b>Auxiliary Weapon System:</b> 12.7mm Heavy Machine Gun  <b>Maximum Range:</b> HE: 20km – BB: 53km – WS-35:100km  <b>Crew:</b> 5</p>	

# Field Artillery Systems

<p><b>MRL, Type-90 (122mm)(Light Bde)</b>  <b>Date of Introduction:</b> 1995  <b>Main Weapon System:</b> 122mm MRL  <b>Auxiliary Weapon System:</b> NA  <b>Maximum Range:</b> 40km  <b>Crew:</b> 5</p>		<p><b>MRL, SR-5 (122/220mm)(FA Bde)</b>  <b>Date of Introduction:</b> 2012  <b>Main Weapon System:</b> 122/220mm MRL  <b>Auxiliary Weapon System:</b> NA  <b>Maximum Range (122mm):</b> 50km  <b>Maximum Range (220mm):</b> 70km  <b>Crew:</b> 3</p>	
<p><b>MRL, Type-90B (122mm)(Medium/Marine Bde)</b>  <b>Date of Introduction:</b> 2004  <b>Main Weapon System:</b> 122mm MRL  <b>Auxiliary Weapon System:</b> NA  <b>Maximum Range:</b> 40km  <b>Crew:</b> 5</p>		<p><b>MRL, PHL-03 (300mm)(FA Bde)</b>  <b>Date of Introduction:</b> 2004  <b>Main Weapon System:</b> 300mm MRL  <b>Auxiliary Weapon System:</b> NA  <b>Minimum Range:</b> 20km  <b>Maximum Range:</b> 130km  <b>Crew:</b> 4</p>	
<p><b>MRL, SR-4 (122mm)(Heavy/Airborne Bde)</b>  <b>Date of Introduction:</b> 2013  <b>Main Weapon System:</b> 122mm MRL  <b>Auxiliary Weapon System:</b> NA  <b>Maximum Range:</b> 50km  <b>Crew:</b> 5</p>		<p><b>RDR, SLC-2E Artillery Locating Radar (FABde)</b>  <b>Date of Introduction:</b> 1994  <b>Detection Range, Artillery:</b> 35km  <b>Detection Range, Rockets:</b> 50km  <b>Detection Range, Mortars:</b> Unknown  <b>Crew:</b> 5</p>	

# Field Artillery & Ancillary Systems

## SPH, Type 89, PLZ-89 (122mm) (Marine Bde)

**Date of Introduction:** 1989

**Main Weapon System:** 122 mm Howitzer

**Auxiliary Weapon System:** 12.7mm Heavy Machine Gun

**Maximum Range:** HE: 18 km – Extended Range Projectile: 21 km

**Crew:** 5



## BL 904 RADAR also known as Type 704, Type 704M

**Notes:** The BL-904 is the artillery locating radar developed by China North Industries Group Corporation (NORINCO). The radar system is based on the phased-array radar (PAR) technology and was developed as a part of the Plz-45 155mm self-propelled howitzer system. Operating in the C-band, the radar can detect the trajectory of enemy mortars to 15km, howitzers 18-24 km and rockets to 29 km, and can also be used to correct friendly artillery fire. The radar has a response time of 5 seconds, and its performance is said to be comparable to the U.S. TPQ-36. Functional units need two 6x6 trucks, 1x Array, 1x Op centre

**Crew:** 6



## Counter Battery Radar IL220 on GM-5951 TRKD ATV

**Notes:** "Zoopark-2" (Cyrillic: 1Л220У «Зоопарк-2»), is an artillery detection radar operating in F-band. It is capable of detecting the positions of mortars to 30 km, guns to 20 km, rockets to 40 km and tactical missile batteries to 55 km. It can estimate impact points of enemy fire as well as provide fire correction for friendly artillery. The 1L220-U has an internal navigation and orientation system that enables autonomous operation.

The radar uses a passive phased array antenna with linear vertical polarization. The fully coherent transmitter is equipped with a traveling wave tube as power amplifier.

**Crew:** UNK



## AKZ 7 SOUND RANGING TRK

**Notes:** The AZK-7M automatic sound-ranging system is intended to locate artillery batteries (guns) and mortars from the sound of gunfire and adjust friendly artillery fire from the sound of shell bursts. The system provides search, direction-finding, and position-finding of the acoustic signal sources in a given zone of surveillance; display of the surveillance results on the monitor of the system commander's workstation; transmission of the surveillance information to higher authorities over the radio and wired links.

The AZK-7M consists of one central point (CP) and three base points (BP). Its equipment is installed in four Ural-43203 trucks having special K2.4322M van bodies. Three vehicles accommodate equipment of the base points and one vehicle houses the central point.

**Crew:** 5 per Base point, 5 per Central point. Total 20



# Anti-Aircraft Systems

**AA, PG99 (35mm)(Light/AD Bde)**

**Date of Introduction:** 1997

**Main Weapon System:** Twin 35mm AA Gun

**Radar (Target):** Yes

**Radar (Search):** Yes

**Primary Targets:** High-speed, low-flying aircraft, helicopters, unmanned aerial vehicles (UAV) and cruise missiles.

**Maximum Range:** 4,000m

**Crew:** 5



**AA, PGZ-09 (35mm) (Marine/Heavy Bde)**

**Date of Introduction:** 2009

**Main Weapon System:** Twin 35mm AA Gun

**Radar (Target):** Yes

**Radar (Search):** Yes

**Primary Targets:** Low to medium altitude, fixed wing, rotary wing, UAS, and cruise missiles.

**Maximum Range:** 4,000m

**Crew:** 3



**AA, ZBL-08 (35mm)(Medium Bde)**

**Date of Introduction:** 2009

**Main Weapon System:** 35mm AA Gun

**Radar (Target):** Yes

**Radar (Search):** No

**Primary Targets:** High-speed, low-flying aircraft, helicopters, unmanned aerial vehicles (UAV) and cruise missiles.

**Maximum Range:** 4,000m

**Crew:** 5



**AA, Type-87 (25mm)(Airborne Bde)**

**Date of Introduction:** 1987

**Main Weapon System:** Twin 25mm AA Gun

**Radar (Target):** No

**Radar (Search):** No

**Primary Targets:** Low altitude, fixed wing, rotary wing, and UAS.

**Maximum Range:** 3,200m

**Crew:** 5



# Anti-Aircraft Missile Systems

**SHORAD, FB-6C (Light/Airborne Bde)**  
**Date of Introduction:** 2014 **Main**  
**Weapon System:** FN-16  
**Radar (Tracking):** Yes  
**Radar (Searching):** Yes  
**Primary Targets:** High-speed, aircraft, helicopters, unmanned aerial vehicles (UAV) and cruise missiles.  
**Maximum Range:** 6km  
**Crew:** 5



**SHORAD, HQ-7B (AD Bde)**  
**Date of Introduction:** 2006  
**Main Weapon System:** HQ-7 Missile  
**Radar (Tracking):** Yes  
**Radar (Searching):** Yes  
**Primary Targets:** High-speed, aircraft, helicopters, unmanned aerial vehicles (UAV) and cruise missiles.  
**Maximum Range:** 11km  
**Crew:** 3



**SHORAD, HQ-17A (Marine/Medium/Heavy Bde)**  
**Date of Introduction:** 2018  
**Main Weapon System:** 9M330 Missile  
**Radar (Tracking):** Yes  
**Radar (Searching):** Yes  
**Primary Targets:** High-speed, aircraft, helicopters, unmanned aerial vehicles (UAV) and cruise missiles.  
**Maximum Range:** 12km  
**Crew:** 5



**SAM, HQ-16A (AD Bde)**  
**Date of Introduction:** 2011  
**Main Weapon System:** HQ-16 Missile  
**Radar (Tracking):** Yes  
**Radar (Searching):** Yes  
**Primary Targets:** High-speed, aircraft, helicopters, unmanned aerial vehicles (UAV) and cruise missiles.  
**Maximum Range:** 40km  
**Crew:** 5


















# Long-range Air Defense / Ballistic Missiles

<p><b>HQ-22, Long-Range Air Defense Missile System</b></p> <p><b>Date of Introduction:</b> 2017</p> <p><b>Target:</b> Low-flying aircraft, cruise missiles, air-to-ground missiles, and tactical ballistic missiles. Effective against any airborne radar system.</p> <p><b>Maximum Range:</b> 170km</p>		<p><b>DF-11, Short-Range Ballistic Missile</b></p> <p><b>Date of Introduction:</b> 1992</p> <p><b>Mission:</b> A solid-fuel SRBM launched from a transporter erector launcher (TEL) and can be launched with roughly 30 minutes of preparation.</p> <p><b>Maximum Range:</b> 300km</p>	
<p><b>HQ-9, Long-Range Air Defense Missile System</b></p> <p><b>Date of Introduction:</b> 2017</p> <p><b>Target:</b> Low-flying aircraft, cruise missiles, air-to-ground missiles, and tactical ballistic missiles. Effective against any airborne radar system.</p> <p><b>Maximum Range:</b> 200km</p>		<p><b>DF-16, Short-Range Ballistic Missile</b></p> <p><b>Date of Introduction:</b> 2011</p> <p><b>Mission:</b> A solid-fuel SRBM launched from a transporter erector launcher (TEL) and can be launched with roughly 30 minutes of preparation.</p> <p><b>Maximum Range:</b> 1,000km</p>	
<p><b>RDR, Type 306B</b></p> <p><b>Date of Introduction:</b> 2016</p> <p><b>Primary Function:</b> Self-Propelled 3D Acquisition Radar</p>		<p><b>RDR, HT-233</b></p> <p><b>Date of Introduction:</b> 1997</p> <p><b>Primary Function:</b> Engagement Radar</p>	

# Anti-Aircraft Missile Support Systems

<p><b>Armoured Command Vehicle CLC 2B Tracked</b></p> <p><b>Date of Introduction:</b> A tracked APC which</p> <p><b>Main Weapon System:</b> 12.7mm Heavy Machine Gun</p> <p><b>Auxiliary Weapon System:</b> NA</p> <p><b>Maximum Range:</b></p> <p><b>Crew:</b> 4</p>	 <p>IMAGE NOT AVAILABLE</p>	<p><b>Radar Target Acquisition CLC 2B Tracked</b></p> <p><b>Notes:</b> The CLC-2 radar is an S-band low-altitude surveillance radar. It uses pulse Doppler and is suitable for searching and detecting low-altitude and ultra-low-altitude targets. It can provide air situation, target indication, threat judgment, coordinate conversion and firepower distribution to 8 self-propelled artillery or short-range surface-to-air missile systems, and command firepower units to counterattack.</p> <p><b>Max Detection Range:</b> 45 km</p> <p><b>Max Detection Ceiling:</b> 4,500 m</p> <p><b>Crew:</b> 5</p>	
<p><b>SA17 Battery C3 Vehicle 9S737 6x6 Truck</b></p> <p><b>Notes:</b> A hardened mobile command post originally designed by Belarus, used as C3 for gun and missile air defense units</p> <p><b>Crew:</b> UNK</p>		<p><b>Radar Early Warning HGR 106</b></p> <p><b>Notes:</b> UHF-band 3D medium and low altitude target indicating radar. It provides three-dimensional detection of low-altitude targets, identification of the target information, automatic capture, data storage and real-time transmission. The radar is suitable for low-altitude intelligence support in army air defense units, ground-to-air missile and anti-aircraft target indication, warning and target indication of the artillery combined and defense system, etc. The main reconnaissance targets include cruise missiles, fixed-wing aircraft, helicopters and unmanned aerial vehicles (UAV).</p> <p>The system is mounted on a Shaanxi Automobile SX2190 6x6 truck. The antenna can be unfolded and folded automatically, reducing deployment time to 15 min and reducing crew effort</p> <p><b>Crew:</b> UNK</p>	
<p><b>STRUNA Bistatic Radar</b></p> <p><b>Date of Introduction:</b> 2007</p> <p><b>Notes:</b> This is a bistatic radar system, where the radar transmitter and detector units are placed several kilometres apart. It is specifically designed for the detection of high altitude stealth aircraft, and operates at 390-450 MHz [UHF]. Altitude: up to 7 km, Range: up to 8 km</p> <p><b>Crew:</b> UNK</p>			

# Aviation

<p><b>HEL, WZ-19</b>  <b>Date of Introduction:</b> 2012  <b>Primary Function:</b> Reconnaissance/attack helicopter  <b>Max Speed:</b> 280 km/h  <b>Cruising Range:</b> 700km  <b>Armament:</b> 90mm missile, Twin-23mm Autocannon, HJ-8  <b>Crew:</b> 2</p>		<p><b>HEL, Z-20</b>  <b>Date of Introduction:</b> 2019  <b>Primary Function:</b> Medium Transport Helicopter  <b>Max Speed:</b> 360 km/h  <b>Cruising Range:</b> 460km  <b>Armament:</b> Varies: Machine Guns, Missiles, ATGM  <b>Crew:</b> 2  <b>Passengers:</b> 12</p>	
<p><b>HEL, Z-8</b>  <b>Date of Introduction:</b> 1976  <b>Primary Function:</b> Multi-Role Helicopter  <b>Max Speed:</b> 275 km/h  <b>Cruising Range:</b> 1,200km  <b>Armament:</b> YJ-8/C-802 Missile  <b>Crew:</b> 3  <b>Passengers:</b> 27</p>		<p><b>HEL, WZ-10</b>  <b>Date of Introduction:</b> 2012  <b>Primary Function:</b> Attack Helicopter  <b>Max Speed:</b> 300 km/h  <b>Cruising Range:</b> 800km  <b>Armament:</b> 90mm missile, 23mm or 14.5mm Autocannon, HJ-9/10  <b>Crew:</b> 2</p>	
<p><b>HEL, Z-9</b>  <b>Date of Introduction:</b> 1981  <b>Primary Function:</b> Medium Multi-role Helicopter  <b>Max Speed:</b> 305 km/h  <b>Cruising Range:</b> 1,000km  <b>Armament:</b> 90mm missile, Twin-23mm Autocannon, HJ-8  <b>Crew:</b> 2  <b>Passengers:</b> 10</p>		<p><b>UAV, CH-1</b>  <b>Date of Introduction:</b> 2002  <b>Primary Function:</b> Reconnaissance and surveillance  <b>Max Speed:</b> 150 km/h  <b>Cruising Range:</b> 740km  <b>Endurance:</b> 6 hours</p>	
<p><b>UAV, Skywalker</b>  <b>Date of Introduction:</b> 2016  <b>Primary Function:</b> Reconnaissance and surveillance  <b>Max Speed:</b> 175 km/h  <b>Cruising Range:</b> 150km  <b>Endurance:</b> 15 hours</p>		<p><b>UAV, AV500</b>  <b>Date of Introduction:</b> 2016  <b>Primary Function:</b> Reconnaissance and surveillance  <b>Max Speed:</b> 180 km/h  <b>Cruising Range:</b> 200km  <b>Endurance:</b> 6 hours</p>	

# Engineer Systems

## Fast Mechanization Bridge, Hz 21/24

**Single System:** 21/24 meters **Load**

**Capacity (Tracked):** 60 tons **Load**

**Capacity (Wheeled):** 17 tons **Crew:** 2



## TMPEV, GCZ-112

**Type:** Tracked Multi-Purpose Engineer Vehicle

**Role:** Road repair, construction, construction of field defenses, non-explosive obstacle clearance, towing, and recovery

**Crew:** 3



## Scissor Bridging System, GQL-111

**Single System:** 15 meters **Complete**

**System:** 75 meters

**Load Capacity (Tracked):** 50 tons

**Load Capacity (Wheeled):** 13 tons

**Crew:** 2



## TMBV, GSL-133

**Type:** Tracked Minefield Breaching Vehicle

**Mine Plough:** Yes

**Mine Clearing Line Charges:** Yes, 100m x 5m

**Crew:** 3



## Ribbon Pontoon Bridge System, Type 79A

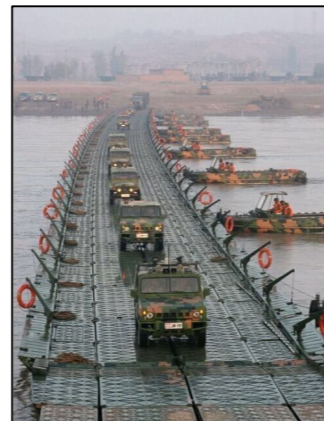
**Floating Bridge (MLC 60):** 109 meters

**Floating Bridge (MLC 20):** 170 meters

**Ferry Raft (MLC 110):** 2ea

**Ferry Raft (MLC 60):** 4ea **Ferry**

**Raft (MLC 40):** 7ea **Crew:** 5



## Mine Dispenser, GBL-131

**Mission:** Anti-tank and anti-personnel mine laying/dispersion

**Mine Dispenser Racks:** 288 launch tubes (8 x 36 mine canister)

**Mines:** 5 x SATM, 15 x SAPM, 45 x SAPEM

**Maximum Length of Minefield:** 2880m

**Crew:** 3



# Engineer Systems

**Mine Roller KMT 7**  
**Note:** KMT-7 mine sweep is of a combined roller/plough type. The full set of equipment comprises two roller sections, two plough sections, two mounting frames, coupling device, pyrosignals cassette for passage marking, electrical equipment, pneumatic system, and a repair kit.

The passage in the minefield is created as a result of pressure applied to mine detonators by the roller sections, followed by the unearthing of undetonated mines and pushing them off the path by the plough. In addition, two flexible torsion bars are installed on the mounting frames to counter antennae-activated hull-piercing mines. Finally the detonation of magnetically triggered mines is achieved by an additional electro-magnetic attachment.



**Amphibious Engineer Vehicle, Type 77/ GCZ-111**  
**Type:** Tracked Multi-Purpose Amphibious Engineer Vehicle  
**Role:** Road repair, construction, construction of field defenses, non-explosive obstacle clearance, towing, and recovery. Telescopic Crane and Dozer blade  
**Crew:** 2



**Armoured Vehicle Launched Bridge, MT-55 A**  
**Complete System:** 18 meters  
**Load Capacity (Tracked):** 50 tons  
**Crew:** 2



**Mine Clearance Vehicle, GSL-130**  
**Type:** Minefield Clearance Breaching Vehicle  
**Mine Plough:** Yes  
**Mine Clearing Line Charges:** 3 x GBP 127  
**Path Cleared:** 100m x 5m  
**Setup Time:** 15 minutes  
**Crew:** 3



**Mine Layer, Towed PMZ-4**  
**Mine Laying Rate:** 10/ min – Anti personnel, 12/ min Anti tank  
**Mine Types:** TM-44, TM-46, TM-57, TM-62 SERIES, TM-72, TMD-B  
**Crew:** 6  
**Note:** Requires a 4x4 truck + driver, lays mines in a straight line. Requires three teams working in parallel.



**Mine Dispensing Truck 6x6, GBL-132**  
**Mission:** Anti-tank and anti-personnel mine laying/dispersion  
**Mine Dispenser Racks:** 4 x 24 mine canisters  
**Mines:** GBL-240 canisters (Total of 480 GLD224 AT mines); GBL-241 canisters (Total of 1,440 GLD125 APers mines); GBL-242 canisters (Total of 4,320 GLD115 APers mines)  
**Maximum Length of Minefield:** 960m  
**Crew:** 3



# Electronic Warfare Systems

<p><b>DZ-9001</b></p> <p><b>Type:</b> Vehicle-Mounted ELINT System Emitter Locator</p> <p><b>Note:</b> The DZ-9001 uses a low-frequency system and a high-frequency system and power supply to detect, intercept, analyze, identify, and record enemy radar radiation.</p>		<p><b>JN-1601</b></p> <p><b>Type:</b> High Frequency (HF) Communication Intercept and Jamming Station</p> <p><b>Note:</b> The JN-1601 is a high frequency (HF) communications jammer designed for searching, detection, direction-finding, and jamming of HF radio frequencies.</p>	
<p><b>Low Altitude Guard</b></p> <p><b>Type:</b> Laser Air Defense System</p> <p><b>Note:</b> The "low-altitude guard" system has completed system debugging and demonstration tests. In the demonstration and verification of real scenes, "low-altitude guard" successfully shot down more than 30 sorties of various small aircrafts such as fixed wing, multi-rotor wing and helicopter, with a shooting rate of 100%.</p>		<p><b>JN-1105A</b></p> <p><b>Type:</b> Communication Intercept and Jamming Complex</p> <p><b>Note:</b> The JN-1105A is a mobile electronic warfare system designed for searching, detection, direction-finding, and jamming of HF/VHF/UHF radio frequencies.</p>	
<p><b>DZ-9300</b></p> <p><b>Type:</b> Man-Portable ELINT System Emitter Locator</p> <p><b>Note:</b> The DZ-9003 uses a low-frequency system and a high-frequency system and power supply to detect, intercept, analyze, identify, and record enemy radar radiation.</p>		<p><b>TDK-038</b></p> <p><b>Type:</b> HF Communication DF/Locating System</p> <p><b>Note:</b> The TDK-038 is a direction finder designed to DF ground-wave, skywave, and near-vertical-incident- skywave (NVIS) HF signals. The system consists of a master and three slave stations. The TDK-038 is capable of automatically locating a target based on the individual DFs provided by the four stations.</p>	<p style="text-align: center; font-size: 24px; font-weight: bold;">IMAGE NOT AVAILABLE</p>

# Electronic Warfare, Radar, Combat Systems & Miscellaneous

## LEER 2 Jammer KAMAZ 4350 Trk Chassis

**Type:** Vehicle-Mounted Jamming Station

**Note:** Provides search-direction finding, recording, parameters measuring of the signals of standard VHF radio equipment, cellular and trunking radio communication operating at fixed frequencies, and FJSS mode with the hopping rate of up to 1,000 hops per second. It can also detect the location of radio signals when operating in tandem with a similar system or in the multi-point direction finding mode when the station is in motion. It can provide selective and wideband barrage jamming against VHF radio communications, GSM 900, GSM 1800/1900, CDMA 2000, WCDMA, AMPS/DAMPS, NMT-4501 cellular mobile systems; trunking communications systems (TETRA, MPT-1327).



## FARA Ground Surveillance Radar

**Type:** Ground Surveillance Radar

**Note:** "Fara-VR" (Cyrillic: 1Л111М «Фара-ВР») J-band surveillance radar for detecting moving persons and combat vehicles on the battlefield



## BTR 80 UNSH

**Type:** Fire control system, C2 for SP Mortar element

**Note:** BTR 80 8x8 chassis fitted with electronics. No passengers.

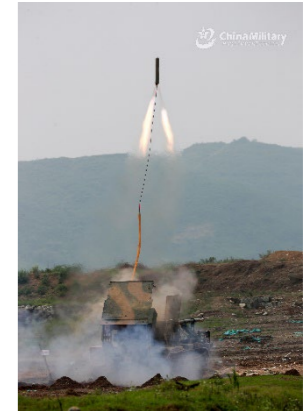
**Crew:** 3





## 130MM ROCKET LAUNCHED HOSE EXPLOSIVE

**Type:** Rocket projected line charge

**Note:** 130mm diameter x 100 m length of high explosive tied to a rocket propelled towing cord. Used in threes to detonate pressure sensitive mines and clear a 4-5-5 m x 100 m lane through an obstacle belt



# Uncrewed Aerial Systems

<p><b>SKYLARK/SKYLIGHT UAS</b></p> <p><b>Engine Type:</b> Electric motor</p> <p><b>Speed:</b> 74 km/h</p> <p><b>Range:</b> 5-10 km</p> <p><b>Ceiling:</b> 16,000 ft/ 4,900 m</p> <p><b>Endurance:</b> 2 hr</p> <p><b>Armament:</b> Unarmed reconnaissance, can be modified to use light explosive ordnance</p>		<p><b>ASN 15 UAS</b></p> <p><b>Engine Type:</b> Piston engine</p> <p><b>Speed:</b> 93 km/h</p> <p><b>Range:</b> 10 km</p> <p><b>Ceiling:</b> 9,800 ft/ 3,000 m</p> <p><b>Endurance:</b> 1 hr</p> <p><b>Armament:</b> Unarmed reconnaissance, can be modified to use light explosive ordnance</p>	



# ATGM & Portable SAM Systems

## HJ 12/ Red Arrow 12 ATGM

**Type:** ATGM  
**Range:** 2,500 m  
**Armour penetration:** 800 mm ERA  
**Guidance:** Infrared, fire & forget



## FN6 MANPADS

**Type:** Gen 3 Surface to air missile  
**Range:** 5.5 km  
**Armour penetration:** N/A  
**Guidance:** Passive Infrared, fire & forget



## GP 105

**Type:** 105 mm Rifled Gun Launched ATGM  
**Range:** 4 km  
**Armour penetration:** 800 mm ERA  
**Guidance:** Semi Active Laser Homing



## FN16 MANPADS

**Type:** Gen 3 Surface to air missile  
**Range:** 6 km  
**Armour penetration:** N/A  
**Guidance:** Dual infrared and ultraviolet, fire and forget



## GP 125

**Type:** 125 mm Rifled Gun Launched ATGM  
**Range:** 5 km  
**Armour penetration:** 800 mm ERA  
**Guidance:** Semi Active Laser Homing



# Land/ Maritime Transport Vehicles

## UAZ 469 4x4 Vehicle

**Date of Introduction:** 1970

**Capacity:** 1 pers – 600kg/ 6 Pers 100kg

**Range:** 480km

**Crew:** 1 Driver, 5 Pax



## Zodiac Combat Rubber Raiding Craft

**Date of Introduction:** 1960s

1 operator + 9 troops

**Powerplant:** 20-75 hp 2 or 4 stroke OBM

**Crew:** 1×Operator + 9×Troops



## EQ2102 6x6 Truck

**Date of Introduction:** 1990s

**Capacity:** 3.5 tons, towing: 4.8 tons

**Range:** UNK

**Crew:** 1+2 pax [cabin]. C2 variant has mobile command post built into cargo space



## URAL 375 6x6 Truck

**Date of Introduction:** 1961

**Capacity:** 4 t off road, 4.8 t on road, 5 t towed off road, 10 t on road

**Range:** 600km

**Crew:** 1+2 pax [cabin]



# Asymmetrical Warfare Experimental Brigade Systems

## SHARP CLAW 1 UGV TRK

**Dimensions:** 0.7m W × 0.6m L x 0.8 m H  
**Mass:** 120 kg  
**Armament:** 7.62mm MG, effective range 500m  
**Range:** 800m from radio control unit  
**Endurance:** 2 hr  
**Notes:** CCTV camera operated UNK IR/ UV capability



## SHARP CLAW 2 UGV 6×6 WHL

**Dimensions:** UNK  
**Mass:** 1,000 kg  
**Range:**  
**Endurance:** 4hr  
**Notes:** A remote controlled, CCTV camera equipped all terrain utility vehicle intended for use with Sharp Claw 1 tracked UGV. Can be equipped with thermal and other sensors, can also deploy and recover small UAS



## SAW TIGER 4×4 UGV

**Dimensions:** 4.8 L × 2.6 W× 1.2 H m  
**Mass:** 5.7 tons  
**Range:** > 10 km  
**Speed:** 20-30 km/h  
**Notes:** Payload 800 kg



## SP MTR 240MM TYULPAN

**Date of Introduction:** 1989  
**Main Weapon System:** 240 mm Mortar  
**Auxiliary Weapon System:** 7.62 mm Machine Gun  
**Maximum Range:** HE: 9.6 km – Extended Range 18 km  
**Crew:** 4



## M240 240MM TOWED MTR

**Date of Introduction:** 1951  
**Dimensions:** 4.23 Tons, 6.2 m  
**Main Weapon :** 240 mm breech loaded Mortar  
**Maximum Range:** HE: 9.6 km – Extended Range 18 km  
**Crew:** 4







## TOS 1A 220MM MBRL

**Date of Introduction:** 1988  
**Main Weapon :** 24×220 mm unguided rockets  
**Maximum Range:** 10 km  
**Crew:** 3



# Other Land Systems

<p><b>RDR, BS 903A</b></p> <p><b>Type:</b> Ground Surveillance Radar System</p> <p><b>Note:</b> The BS 903A is a small, lightweight modular designed ground surveillance radar (GSR) that can detect, identify, and locate moving ground targets using a microstrip antenna at any time of the day regardless of the season, and in conditions of low visibility (fog, rain, snow, dust, or smoke).</p>	<p>IMAGE NOT AVAILABLE</p>	<p><b>CBRN,RKhM-2</b></p> <p><b>Type:</b> CBRN Reconnaissance Vehicle</p> <p><b>Note:</b> The 8×8 CBRN vehicle is designed to conduct chemical, radiological, biological and nuclear reconnaissance missions for CBRN reconnaissance elements. It can transmit reconnaissance data to reconnaissance devices and command control centers</p>	
<p><b>RDR, JY-17A</b></p> <p><b>Type:</b> Ground Surveillance Radar System</p> <p><b>Note:</b> The JY-17A is a small, lightweight modular designed ground surveillance radar (GSR) that can detect, identify, and locate moving ground targets using a microstrip antenna at any time of the day regardless of the season, and in conditions of low visibility (fog, rain, snow, dust, or smoke).</p>		<p><b>LTV, CSK-141</b></p> <p><b>Type:</b> Light Tactical Vehicle</p> <p><b>Note:</b> This 4×4 LTV is one of the two principal light armored vehicles currently fielded by the OPA. All CSK-141 are equipped with a remote-controlled turret that can be mounted with machine guns, anti-tank missiles, and grenade launchers.</p>	
<p><b>RDR, ST-312</b></p> <p><b>Type:</b> Ground Surveillance Radar System</p> <p><b>Note:</b> The JY-17A is a small, lightweight modular designed ground surveillance radar (GSR) that can detect, identify, and locate moving ground targets using a microstrip antenna at any time of the day regardless of the season, and in conditions of low visibility (fog, rain, snow, dust, or smoke).</p>	<p>IMAGE NOT AVAILABLE</p>	<p><b>SMK, M56</b></p> <p><b>Type:</b> Smoke Generator</p> <p><b>Note:</b> The M56 Coyote smoke generating system provides 90 minutes of visual and 30 minutes of infrared obscuration without resupply. The visual and infrared screens nullify enemy reconnaissance, surveillance, and target acquisition (RISTA) devices information of troop strength, position, and movement and deny visual and infrared weapon systems kills on friendly combat units. A crew of 2 is required to operate.</p>	

# Surface to surface Anti-Shipping Missiles

## YJ-12 Anti Ship Cruise Missile

**Type:** Supersonic Anti-Ship Cruise Missile

**Length:** 6.3m

**Weight:** 2,500kg

**Warhead:** HE-FRAG

**Engine:** Integrated Ramjet/Booster propulsion system

**Range:** 500km

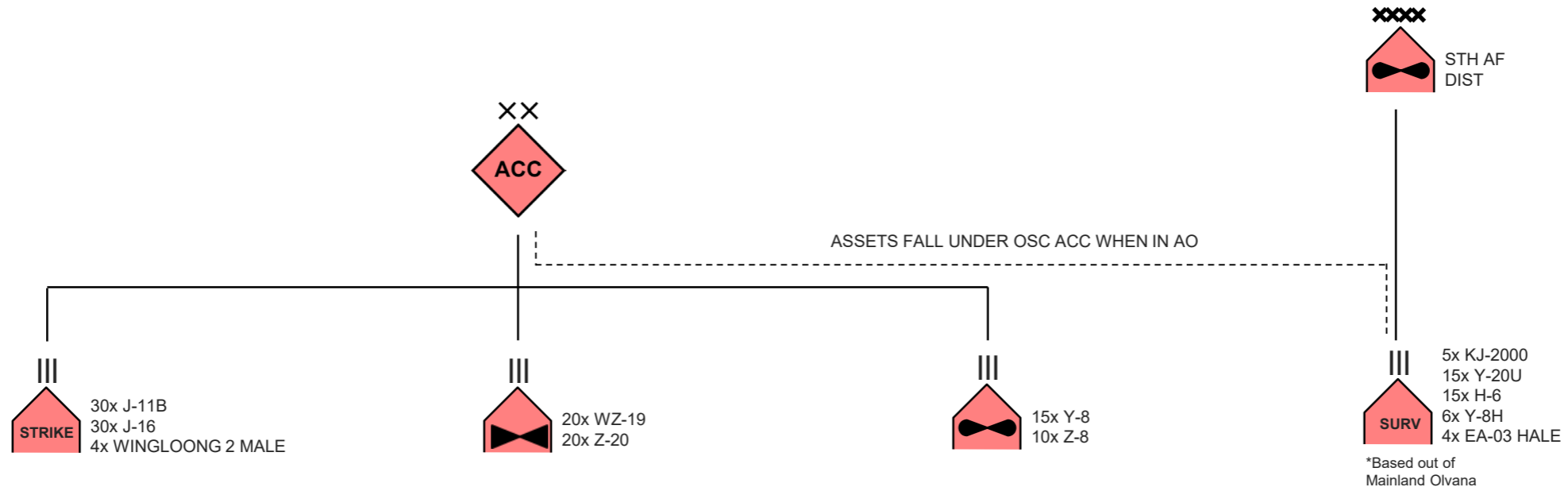
**Maximum Speed:** Mach 3

**Guidance System:** Inertial with active radar homing



# **Air Component**

# Air Component Command Structure



# Aircraft

<p><b>J10 Firebird Multirole Fighter</b></p> <p><b>Crew</b> 1</p> <p><b>Speed</b> Mach 2.0</p> <p><b>Range</b>– 1853 km/1001 nm</p> <p><b>Ceiling:</b> 18,000 m/59,055 ft</p> <p><b>Weapons systems:</b> Autocannon, Air-to-Air Missile, Free-fall cluster bombs, Unguided rocket launcher</p> <p><b>Equipment:</b> Type 1473H Pulse-Doppler FCR, Type Hongguang-I IRST Pod, BM/KG300G Jamming Pod</p>		<p><b>J20 Mighty Dragon Air Superiority Fighter</b></p> <p><b>Crew</b> 1</p> <p><b>Speed</b> Mach 2.0</p> <p><b>Range</b>– 6,000 km/3,239 nm</p> <p><b>Ceiling:</b> 20,000 m/65,614 ft</p> <p><b>Weapons systems:</b> Autocannon, Air-to-Air Missile, Free-fall cluster bombs, Unguided rocket launcher</p> <p><b>Equipment:</b> Type 1475 AESA Radar, EOTS-86 Electro-Optical Tgt System, EORD-31 IRST</p>	
<p><b>J-11B (Flanker-L) Air Superiority Fighter</b></p> <p><b>Crew</b> 1</p> <p><b>Speed</b> Mach 2.1</p> <p><b>Combat Range</b>– 1500 km/810 nm</p> <p><b>Ceiling:</b> 9,000 m/29, 528 ft</p> <p><b>Weapons systems:</b> Autocannon, Air-to-Air Missile, Free-fall cluster bombs, Unguided rocket launcher</p> <p><b>Equipment:</b> NIIP Tikhomirov N001VE Myech coherent pulse Doppler radar, Gardeniya ECM pods</p>		<p><b>J-16 and J-16D Multirole Striker Fighter Aircraft</b></p> <p><b>Crew</b> 2</p> <p><b>Speed</b> Mach 2.4</p> <p><b>Combat Range</b>– 901 km/486 nm</p> <p><b>Ceiling:</b> 13,300 m/43,635 ft</p> <p><b>Weapons systems:</b> Autocannon, Air-to-Air Missile, Laser guided bombs, Satellite guided bombs</p> <p><b>Equipment:</b> Wingtip electronic warfare pods,</p>	
<p><b>H-6 (Hong-6) Strategic Bomber</b></p> <p><b>Crew</b> 1</p> <p><b>Speed</b> 768 km/h</p> <p><b>Combat Range</b>– 1800 km/970 nm</p> <p><b>Ceiling:</b> 17,300 m/56,759 ft</p> <p><b>Weapons systems:</b> Anti-ship/air-to surface missiles, CJ-100 supersonic-hypersonic cruise missile. 9,000 kg free-fall weapons</p> <p><b>Equipment:</b> UNK</p>		<p><b>JH-7A (Flounder) Fighter/Bomber</b></p> <p><b>Crew</b> 2</p> <p><b>Speed</b> Mach 1.5</p> <p><b>Combat Range</b>– 1500 km/810 nm</p> <p><b>Ceiling:</b> 20,000 m/65,614 ft</p> <p><b>Weapons systems:</b> Autocannon, Air-to-Air Missile, Air to surface missile, Anti-Ship missiles, Laser guided bombs, Satellite guided bombs</p> <p><b>Equipment:</b> RW1045 receiver, 960-2 noise system, 914-4G system. Can reportedly detect targets at a range of 54 nm (62 mi, 100 km) and simultaneously track 14 targets and attack four to six.</p>	








# Aircraft

<p><b>Y-8H1 Reconnaissance Aircraft</b></p> <p><b>Crew</b> 6</p> <p><b>Speed</b> 550 km/h</p> <p><b>Range</b>– 5615 km/3032 nm</p> <p><b>Ceiling:</b> 10,600 m/34,777 ft</p> <p><b>Weapons systems:</b> UNK</p> <p><b>Equipment:</b> Chin-mounted radome , SATCOM antenna, BM/KZ800 ELINT system, Litton Canada APS-504 search radar, dual Litton LTN-72R inertial navigational system , single LTN-211 Omega navigation set</p>		<p><b>KJ-2000 (Mainring) Airborne Early Warning and Control Aircraft</b></p> <p><b>Crew:</b> Flight – 5. Mission - 15</p> <p><b>Speed</b> 540 km/h</p> <p><b>Range</b>– 5,000 km/2,700 nm</p> <p><b>Ceiling:</b> 10,200 m/33,465 ft</p> <p><b>Weapons systems:</b> UNK</p> <p><b>Equipment:</b> Advanced, non-rotating, three-sided active electronically scanned array (AESA) radar system</p>	
<p><b>J-16D Radar-Jamming Electronic Warfare Aircraft</b></p> <p><b>Crew</b> 2</p> <p><b>Speed</b> Mach 2.4</p> <p><b>Combat Range</b>– 1500 km/810 nm</p> <p><b>Ceiling:</b> 20,000 m/65,617 ft</p> <p><b>Weapons systems:</b> Autocannon, Air-to-Surface Missile, Laser guided bombs, Satellite guided bombs</p> <p><b>Equipment:</b> UNK</p>		<p><b>Y-8G (High New 3) Long-Range Electronic Jamming Aircraft</b></p> <p><b>Crew</b> 6</p> <p><b>Speed</b> 550 km/h</p> <p><b>Range</b>– 2,700 km/1,486 nm</p> <p><b>Ceiling:</b> 10,400 m/34,120 ft</p> <p><b>Weapons systems:</b> UNK</p> <p><b>Equipment:</b> UNK</p>	
<p><b>Y-7-100 (Yunshuji -7-100) Transport Aircraft</b></p> <p><b>Crew</b> 3-5</p> <p><b>Speed</b> 768 km/h</p> <p><b>Range</b>– Max payload - 910 km/491 nm</p> <p><b>Ceiling:</b> 8750 m/24,606 ft</p> <p><b>Weapons systems:</b> N/A</p> <p><b>Cargo:</b> 48-52 pax</p>		<p><b>Y-9 Medium Transport Aircraft</b></p> <p><b>Crew</b> 4</p> <p><b>Speed</b> 650 km/h</p> <p><b>Range</b>– 5800 km</p> <p><b>Ceiling:</b> 9000 m/24,606 ft</p> <p><b>Weapons systems:</b> N/A</p> <p><b>Cargo:</b> 132 pax</p>	

# Aircraft

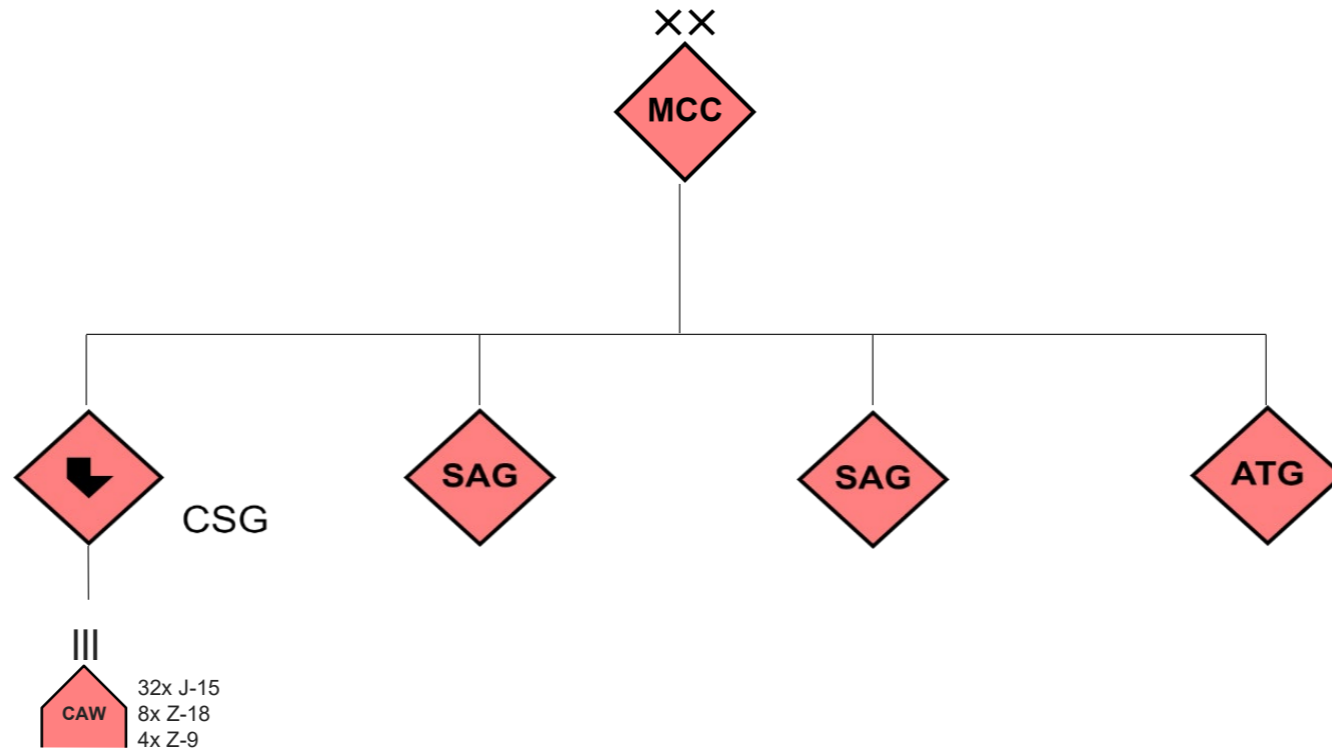
<p><b>Y-20 Kunpeng (Chubby Girl) Strategic Transport Aircraft</b></p> <p><b>Crew 3</b></p> <p><b>Speed:</b> 800 km/h</p> <p><b>Ranges</b>            Max Fuel – 7800 km/4212 nm            51 ton payload – 5200 km/2808 nm            55 ton payload – 4500 km/22430 nm            66 ton payload – 3700 km/1998nm</p> <p><b>Service ceiling:</b> 13,000 m/42650 ft</p> <p><b>Weapons systems:</b> UNK</p> <p><b>Cargo:</b> 140 pers/125 paratroopers</p>		<p><b>Y-20U K Aerial Refuelling Tanker</b></p> <p><b>Crew:</b> 3</p> <p><b>Speed:</b> Maximum speed – 800 km/h</p> <p><b>Ranges</b>            66 ton payload – 3,700 km/21,998 nm</p> <p><b>Service ceiling:</b> 13,000 m/42,650 ft</p> <p><b>Fuelling systems:</b> Three hose-and-drogue pods. One hose-drum pod below each outer wing; third unit attached high on port, rear fuselage, based on Russian UPAZ-1A pods.</p> <p><b>Refuelling capacity:</b> 60,000 kg</p>	
<p><b>Z-19 (WZ-19) Reconnaissance/Attack Helicopter</b></p> <p><b>Crew :</b> 2</p> <p><b>Speed:</b> Maximum – 280 km/h</p> <p><b>Range:</b> 700 km/378 nm</p> <p><b>Service ceiling:</b> 4500 m/14,764 ft</p> <p><b>Weapons:</b> Wing-mounted autocannon, Wing-mounted AT rocket systems, TY-90 Air-to-Air Missiles</p> <p><b>Equipment :</b> Laser Range Finder, Under-Nose Low-Light TV, Infrared Observing and Tracking, Roof Mounted Optical Sight</p>		<p><b>Z-8 (Zhishengji-8) Multi-Role Helicopter</b></p> <p><b>Crew:</b> 2</p> <p><b>Speed:</b> Max – 275 km/h</p> <p><b>Range:</b> 700 km/378 nm</p> <p><b>Service ceiling:</b> 3100 m/10,171 ft</p> <p><b>Weapons systems:</b> Wing-mounted rocket systems, YJ-8/C-802 ASM, YJ-83 ASCM</p> <p><b>Passengers/cargo:</b> 27 pers/ 15 medical stretchers</p>	
<p><b>Z-18F (Sea Eagle) Anti-Submarine Helicopter</b></p> <p><b>Crew:</b> 2</p> <p><b>Speed:</b> Max – 275 km/h</p> <p><b>Range:</b> Max – 900 km/486 nm</p> <p><b>Service ceiling:</b> 9000 m/19,685 ft</p> <p><b>Weapons systems:</b> YJ-83 ASCM, YJ-9 ASM, 32 sonobuoys</p> <p><b>Passengers/cargo:</b> 27 pers</p>		<p><b>Z-18 (Bat) Airborne Early Warning Helicopter</b></p> <p><b>Crew:</b> 2</p> <p><b>Speed:</b> Cruise speed – 250 km/h</p> <p><b>Range:</b> Max range – 700 km/378 m</p> <p><b>Ceiling:</b> 9000 m/29,528 ft</p> <p><b>Weapons systems:</b> Wing-mounted rocket systems, Yu-7 ASW torpedoes, YJ-9 ASM, Up to 32 sonobuoys</p> <p><b>Passengers/cargo:</b> 27 pers/15 stretchers, Internal payload – 4 tons, External payload – 5 tons</p>	

# Uncrewed Aerial Vehicles & Loitering munitions

<p><b>Tomahawk H16-V12 (UAV) -Asymmetrical Warfare Experimental BDE</b></p> <p><b>Speed:</b> 64 km/h</p> <p><b>Ranges</b> Flight radius 15 km Endurance 60 min</p> <p><b>Service ceiling:</b> 5,300 m</p> <p><b>Weapons systems:</b> 36x zoom lens, ISTAR, security control, smoke bombs, HE bombs, tear gas grenades, GLA, missiles, air capture, air Shouting, air lighting, air explosive disposal</p> <p><b>Power source:</b> Electric battery</p>		<p><b>Golden Eagle CR500 (UAV) - Asymmetrical Warfare Experimental BDE</b></p> <p><b>Speed:</b> Maximum speed – 64 km/h</p> <p><b>Ranges</b> Flight radius 15 km Endurance 60 min</p> <p><b>Service ceiling:</b> 5,300 m</p> <p><b>Weapons systems:</b> Blue Arrow 9 and Blue Sword 9 air-to-surface missiles, Visible light camera system, infrared thermal image night vision system, and laser ranging and irradiation system, Swarm drone control capable</p> <p><b>Power source:</b> UNK Possibly piston engine</p>	
<p><b>Blowfish A3 (UAV) Asymmetrical Warfare Experimental BDE</b></p> <p><b>Speed:</b> Cruise: UNK Max - 760 km/h</p> <p><b>Ranges</b> Distance: 100 km Endurance: 60 min</p> <p><b>Service ceiling:</b> 5,100 m</p> <p><b>Weapons systems:</b> Unguided rockets, up to 8x 60mm or 81mm mortar bombs, hand grenades, 7.62 mm Machine gun</p> <p><b>Power source:</b> Electric battery</p>		<p><b>Wing Loong II Medium-Altitude Long Endurance (MALE) UAV</b></p> <p><b>Speed:</b> Cruise: 200 km/h, Max 375 km/h</p> <p><b>Range:</b> 7040 km/ 32 hrs</p> <p><b>Service ceiling:</b> 9900 m/32480 ft</p> <p><b>Weapons systems:</b> FT-10/FT-9/FT7/GB7/GB4 bombs, BRM1/AKD-10/BA-7 missiles, Air-to-ground radars, GPS communication system, Electro-optical pod with day light and infrared cameras and sensors, Satellite link, Communications range: &gt;1,000 km (620 mi) with SatCom, ~150 km (93 mi) from Ground Control Station (GCS)</p> <p><b>Power source:</b> 4 cyl 4stroke piston engine</p>	
<p><b>EA-03 Soar Dragon High-Altitude Long-Endurance (HALE) UAV</b></p> <p><b>Speed:</b> Cruise: UNK Max - 760 km/h</p> <p><b>Range</b> Maximum distance – 7040 km/3801 nm Combat range 2000 km/1080 nm Endurance – 10 hrs</p> <p><b>Service ceiling:</b> 18,000 m/59,055 ft</p> <p><b>Notes:</b> Aerial reconnaissance for ASBM and ASCM</p> <p><b>Power source:</b> Turbofan engine</p>		<p><b>FH/ CH-901 Loitering Munition</b></p> <p><b>Speed:</b> Cruise - Max – 180 km/h</p> <p><b>Range</b> Operating radius 10 km Endurance: 60 min</p> <p><b>Ceiling:</b> 50-150 m</p> <p><b>Warhead:</b> 2.5-3kg HE or HEAT, top attack against all armoured vehicles</p> <p><b>Notes:</b> Electro optical [TV camera] guidance</p>	

# Maritime Component

# Maritime Component – Structure



# Carrier Strike Group

## Sector screen

**1x *Kuznetsov Mod.* aircraft carrier (CV)**

**1x *Fuyu* Fast combat support ship (AOR)**

Embedded within ASW sector screen

**1x *Renhai* cruiser (CG)**

Area air defence, 6 to 15 nm upthreat

**3x *Luyang III* destroyer (DDG)**

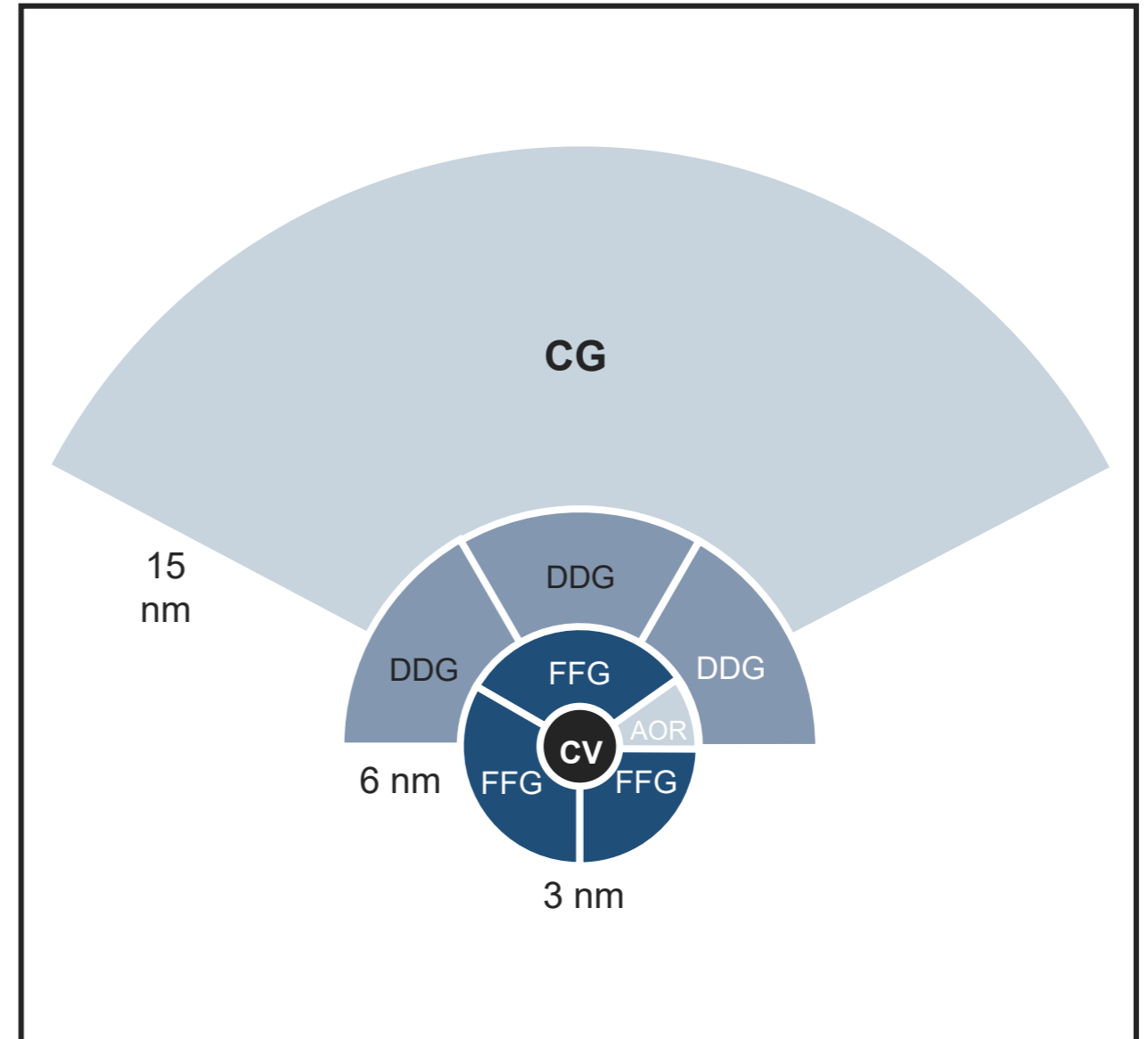
180° AAW sector screen, 3 to 6 nm from CV

**3x *Jiangkai II* frigate (FFG)**

360° ASW sector screen, 1 to 3 nm from CV

**1x *Shang* attack submarine (SSN)**

Wide area patrol, 50 to 100 nm ahead of CBG



# Carrier Strike Group Platforms



***Kuznetsov Mod. aircraft carrier (CV)***



***Jiangkai II frigate (FFG)***



***Renhai cruiser (CG)***



***Fuyu fast combat support ship (AOR)***



***Luyang III destroyer (DDG)***



***Shang attack submarine (SSN)***

# Amphibious Task Group

## Sector screen

**1x Fuyu Fast Combat Support Ship (AOR)**  
1nm radius in centre of screen

**2x Yushen Amphibious Assault Ship (LHD)**  
1-3 nm from AOR

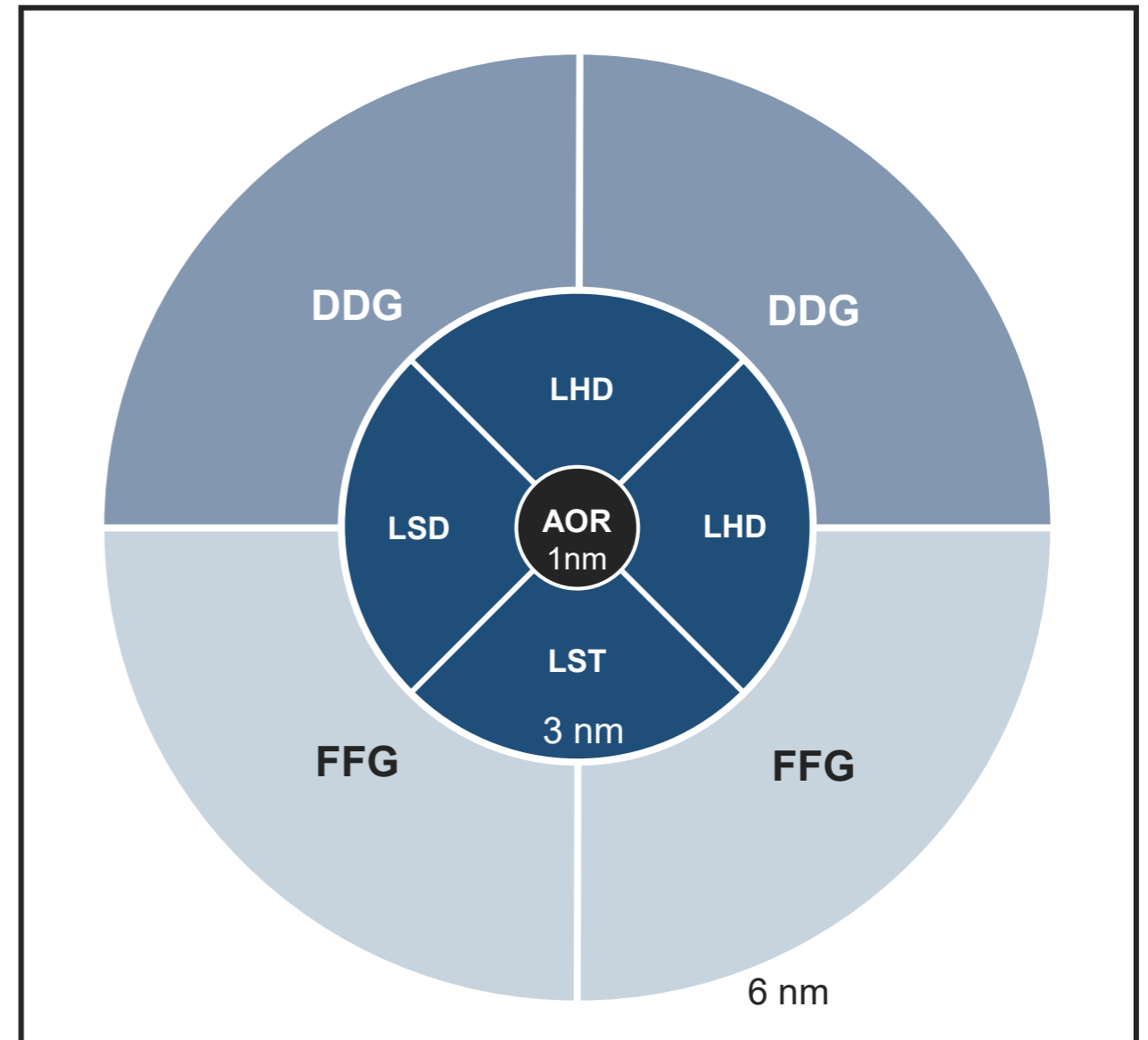
**2x Yuzhao Landing Ship (LSD)**  
1-3 nm from AOR

**2x Luyang III Destroyer (DDG)**  
180° AAW sector screen, 3 to 6 nm from ATG

**2x Jiangkai II Frigate (FFG)**  
180° ASW sector screen, 3 to 6 nm from ATG

Optional:  
**Renhai Cruiser (CG)**  
Air defence, 6 to 15 nm upthreat

**Shang Attack Submarine (SSN)**  
Wide area patrol, 50 to 100 nm ahead of CBG





# Amphibious Task Group Platforms



*Yushen* landing helicopter dock (LHD)



*Jiangkai II* frigate (FFG)



*Yuzhao* landing ship dock (LSD)



*Fuyu* fast combat support ship (AOR)



*Luyang III* destroyer (DDG)

Optional:



*Shang* attack submarine (SSN)



*Renhai* cruiser (CG)

# Surface Action Group

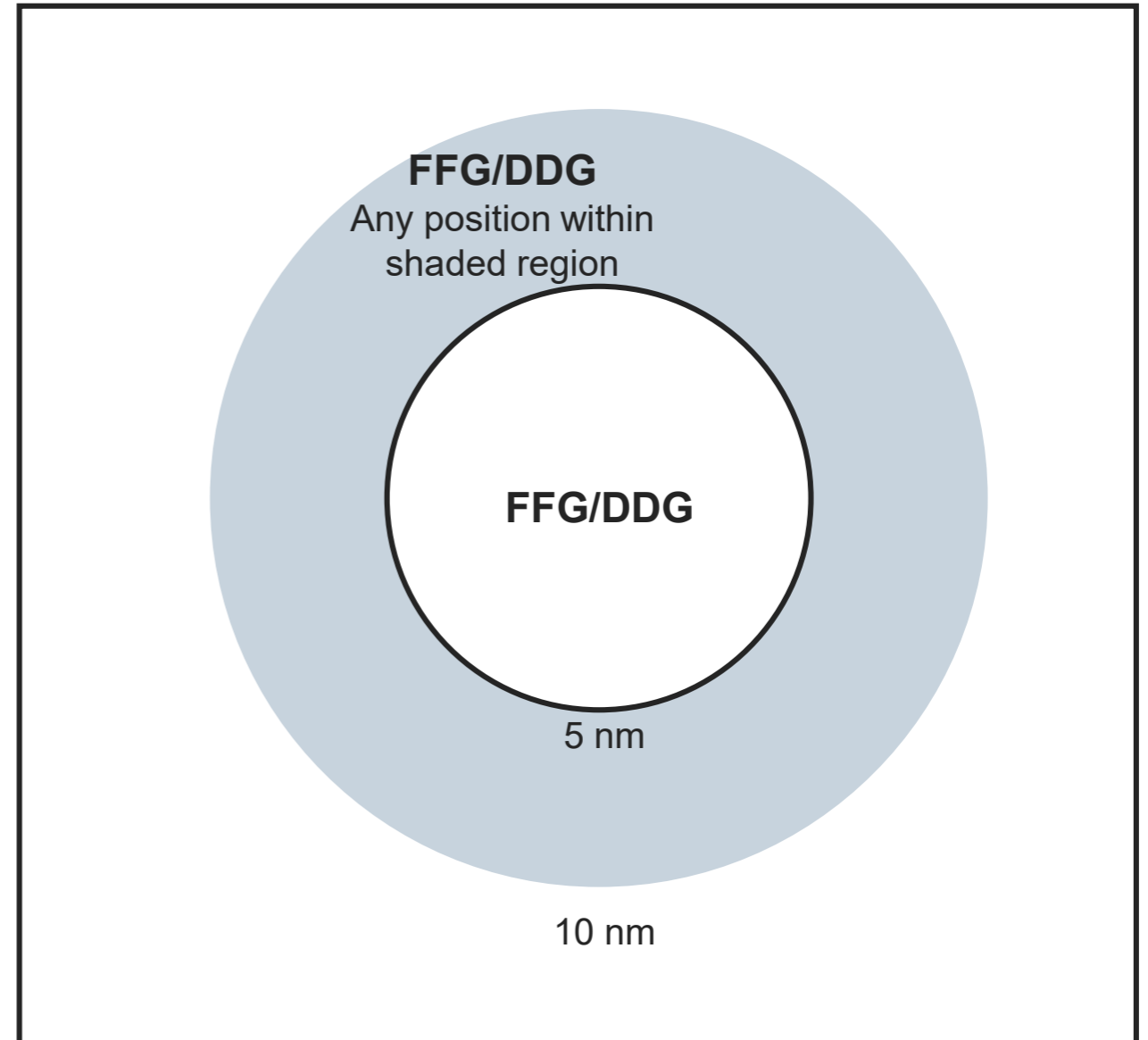
## Temporary two ship organisation

An OPN surface action group may comprise any of the following pairs:

- 2x *Luyang III* Destroyer (DDG)  
or
- 2x *Jiangkai II* Frigate (FFG)  
or
- 1x *Luyang III* Destroyer (DDG)  
1x *Jiangkai II* Frigate (FFG)

A SAG is organised around a specific tactical mission

Vessels in a SAG will generally maintain a loose-line-of-bearing formation at a range of 5-10 nautical miles.



# Surface Action Group Platforms



***Jiangkai II* frigate (FFG)**



***Luyang III* destroyer (DDG)**

# Kuznetsov Mod. CV (002)

GENERAL SPECS	
Total	1 ( <i>Shandong</i> )
Complement	2000+ crew 600+ air wing
Range	8,500 nm
Max. Speed	31 kts
Length	305 m
Beam / Draught	75 m / 11.0 m
Displacement	64,000 tonnes
Propulsion	Conventionally powered 4x 36,775 kW steam turbines
Radar	Type 346A DRAGON EYE Type 382 TOP PLATE
Launch type	STOVAR



WEAPONS			
Category	Type	Range / Speed	Guidance
Air wing	32 x J-15 8 x Z-18 4 x Z-9	3,500km / Mach 2.4	
3x 24-cell SAM	HHQ-10	9 km / Mach 2.0	Infrared homing
CIWS	3x H/PJ-14	-	-

*Shandong* is Olvana's first domestically built aircraft carrier and second in OPN service. The aircraft carrier's design is largely based on Olvana's first carrier *Liaoning*, a Donovanian-built *Kuznetsov*-class aircraft carrier. As such, the hull bears the NATO designation *Kuznetsov Mod.* and the Olvanan designation 'Type 002'.

This carrier retains the ski-jump takeoff, which limits its air wing to helicopters and Shenyang J-15 fighter jets. The ship is powered by conventional diesel-fired boilers driving steam turbines derived from the Soviet-designed examples installed on *Liaoning*.

*Shandong* is a significant improvement over the Donovanian-built *Liaoning*. For example, the *Shandong* carrier's ski-jump has an angle of 12.0° instead of the 14.0° on *Liaoning*. This is an ideal angle for launching the Shenyang J-15 fighter. Together with the enlarged hangar, the island which has been made smaller by 10%, and extended on sponsons in the aft-starboard quarter, allowing *Shandong* to carry up to 48 aircraft, compared to *Liaoning's* 36. The island includes a second glazed deck which permits the bridge and flight control areas to be separate, creating greater operational efficiency. It also features a faceted upper area of four active electronically scanned arrays (AESAs) for the improved Type 346A DRAGON EYE S-band radar.

*Shandong*, like its predecessor, uses the simpler "short take-off but arrested recovery" (STOVAR) launch and recovery system.

# Shang SSN (093)



GENERAL SPECS	
Total	4
Complement	100
Range	Unlimited
Max. Speed Submerged	30 kts
Length	107 m
Beam	11 m
Submerged Displacement	6,096 tonnes
Propulsion/Prop	Nuclear, 1 shaft, 7-blade
Radar	Type 356
Sonar	H/SQ2-262 Hull mounted, H/SQG-207 Flank array (6), Towed array, Low Frequency Passive intercept array

WEAPONS			
Category	Type	Range / Speed	Guidance
Torpedos (20) (6x 533mm bow tubes)	Yu-3 HWT	13 km / 35 kt	Active/passive acoustic homing
	Yu-4 HWT	15 km / 40 kt	Active/passive acoustic homing
	Yu-6 HWT	45 km / 65 kt	Active/passive acoustic homing
	Yu-8 LWT	40 km / INA	Active/passive acoustic homing
Mines (36)	Various	-	-

The Type 093 (NATO codename: Shang class) is Olvana's 2nd-generation nuclear-powered attack submarine (SSN) introduced in the early 2000s. It represents a significant improvement over the 1st-generation submarines in performance and capability.

The improved Type 093B (Shang-III class) SSGN is capable of carrying long-range cruise missiles for anti-ship and land-attack. The OPN initiated the development of its next-generation Type 093 nuclear attack submarine in the mid-1980s as a successor to its 1st-generation Type 091 (Han class). However, little progress was made until the mid-1990s, when Donovia agreed to transfer its nuclear submarine technology to Olvana in exchange for urgently-needed cash. Donovia offered consultation to the Type 093's development, including overall hull design, engine and machinery quieting, combat system, weapon system, and countermeasures outfit. The existence of the submarine programme was first reported by the Pentagon in 2003.

The submarine can carry either 20 torpedos or 36 mines

While the basic variant **Type 093 (Shang-I)** is only comparable to the 1970s U.S. and Donovian designs such as the early variant Los Angeles (688) class and the Victor-III class, the improved Type 093A/B is believed to be approaching the later variant Los Angeles class and the Akula class in quietness and overall capability, though they still cannot match the more advanced Seawolf and Virginia class.

**Type 093A (Shang-II)** is an improved variant with a redesigned sail with a tapered front (similar to that of the Seawolf class and Virginia class) and all windows removed.

**Type 093B (Shang-III)** variant features some redesign to the sail, with the tapered front retained but all windows removed. There is a mysterious hump located immediately behind the sail, which is believed to accommodate a missile vertical launch system (VLS). The VLS is said to be used for carrying and launching the YJ-18 ASCM, the Yu-8 rocket-propelled torpedo, and the CJ-10 land-attack cruise missile (LACM). These missiles allow the Type 093B to project power ashore over long distance – a capability not previously possessed by Olvanan SSNs.

# Renhai CG (055)

GENERAL SPECS	
Total	12
Complement	300+
Range	5000 nm
Max. Speed	30 kts
Length	180 m
Beam / Draught	20 m / 6.6m
Displacement	13,000 tonnes
Propulsion	4x 28,000 kW gas turbines
Radar	Type 346B DRAGON EYE AESA
Aircraft	2x Z-9, Z-18, or Z-20



WEAPONS			
Category	Type	Range / Speed	Guidance
112-cell VLS 64 cells fwd, 48 cells aft	HHQ-9 LR SAM	250 km / Mach 4.0	Semi-active radar homing
	YJ-18 ASCM	540 km / Mach 0.8	BeiDou / Active radar homing
	YJ-21 ASBM	1500 km / Mach 6.0	INA
	CJ-10 LACM	1500 km / Mach 0.8	INS/Sat/TERCOM
Torpedos	Yu-7 (LWT)	14 km / 45 kt	Active/passive acoustic homing

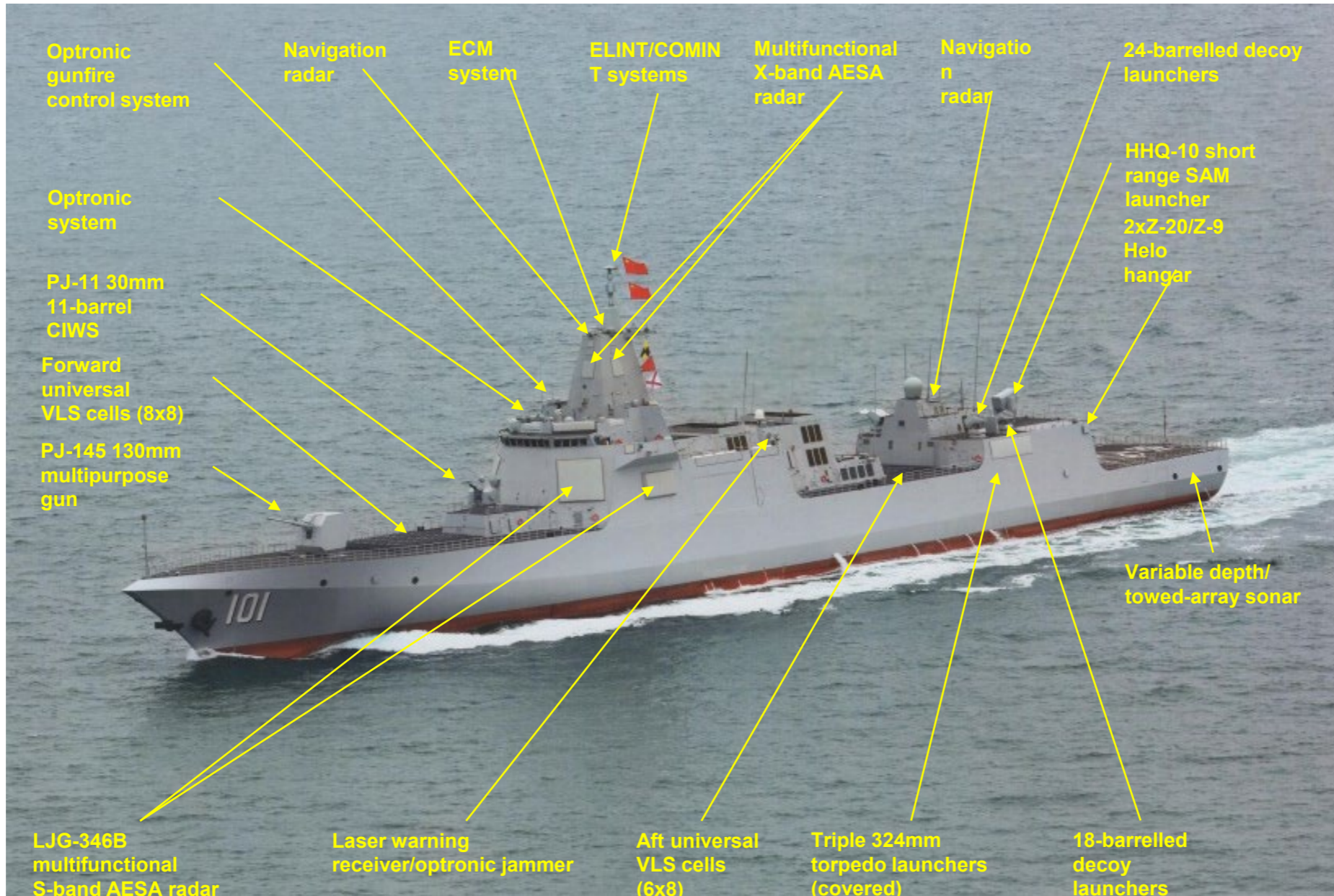
The Type 055 destroyer (Renhai-class cruiser) is a class of stealth-guided missile cruisers with a multi-mission design; the combination of sensors and weapons suggests the main role of area air defense, with anti-submarine warfare capabilities surpassing previous Olvanan surface combatants. Type 055 is expected to undertake expeditionary missions and form the primary escort for Olvanan aircraft carriers. The United States Navy defines a cruiser as a large multi-mission surface combatant with flag facilities; this suggests the U.S. expects the Type 055 to fulfil a similar role as the *Ticonderoga*-class cruiser.

Type 055 adopts a conventional flared hull with distinctive stealthy features including an enclosed bulbous bow that hides mooring points, anchor chains, and other equipment. The bow and main deckhouse are configured similarly to previous Type 052C/D destroyers. A continuous structure midship increases internal volume and reduces radar cross-section. The smokestack design reduces both infrared signature and radar cross-section. Olvanan sources credit the design as being generally stealthy, with reduced radar, noise, infrared, and electromagnetic radiation signatures. Propulsive power is generated by four 28 MW QC-280 gas turbines in combined gas and gas arrangements. Additional power may be provided by six 5 MW QD-50 gas turbines. The maximum speed is estimated to be 30 knots.

Type 055's battle management system may allow integration with carrier battle groups. The integrated mast may mount X-band radar in four fixed active electronically scanned arrays (AESA). The deckhouse may mount four Type 346B AESA panels; the previous Type 346 was a dual S- and C-band radar, but the Type 346B may only be S-band as an X-band radar is included. The X band radar may be mounted higher as it is better suited for horizon search and low altitude object detection. The Type 346B arrays can be larger and have higher power when mounted on the deckhouse below the X band radar. Various electronic warfare support measures (ESM), electronic countermeasures (ECM), and electro-optic (EO) sensors and datalinks are mounted. They are likely more advanced than those deployed on previous ships. A deployment port exists for variable depth and towed array sonar. The large bulbous bow likely contains a bow sonar; the Type 055 may mount a larger bow sonar than previous Olvanan surface combatants.

The primary armament is missiles carried in 112 universal vertical launch cells (VLS); 64 cells forward and 48 cells aft. The same VLS model is used on the Type 052D destroyer, which is believed to be an implementation of the GJB 5860-2006 standard. The longest variant, with 9-meter cells, is likely used. It has been suggested that future variants may be armed with lasers or electromagnetic railguns. Since the current design does not have integrated electric propulsion, installation of integrated electric propulsion will be required for the ship to meet power requirements in the future.

# Renhai CG (055) – Armament & Systems Layout



# Luyang III DDG (052D)

GENERAL SPECS	
Total	36
Complement	280
Range	4500 nm
Max. Speed	30 kts
Length	160 m
Beam / Draught	18 m / 6.6m
Displacement	8,000 tonnes
Propulsion	2x 20V 4,900 kW diesel 2x 28,000 kW gas turbines
Radar	Type 346A DRAGON EYE AESA
Aircraft	2x Z-9 or KA-28 or Z-20 (only on 052DL)



WEAPONS			
Category	Type	Range / Speed	Guidance
64-cell VLS 32 cells fwd, 32 cells aft	HHQ-9 LR SAM	250 km / Mach 4.0	Semi-active radar homing
	YJ-18 ASCM	540 km / Mach 0.8	BeiDou / Active radar homing
	CY-5 ASW missile	30 km / Mach 0.9	Inertial in flight, A/P sonar in water
24-cell SAM	HHQ-10	9 km / Mach 2.0	Infrared homing
Torpedos	Yu-7 (LWT)	14 km / 45 kt	Active/passive acoustic homing
Naval Gun CIWS	1x H/PJ-38 130mm	-	-
	1x H/PJ-12	-	-

The Luyang III is the OPN's main surface combatant, featuring a 64-cell vertical launch system (VLS) capable of launching ASCM, surface-to-air missiles (SAM), and anti-submarine rockets. The new destroyers are equipped with two 32-unit vertical launch systems capable of launching HQ-9B air-defense missiles, anti-ship and anti-submarine missiles. The original YJ-62 missile launchers used on the Type 052C do not appear to be present on the new destroyer.

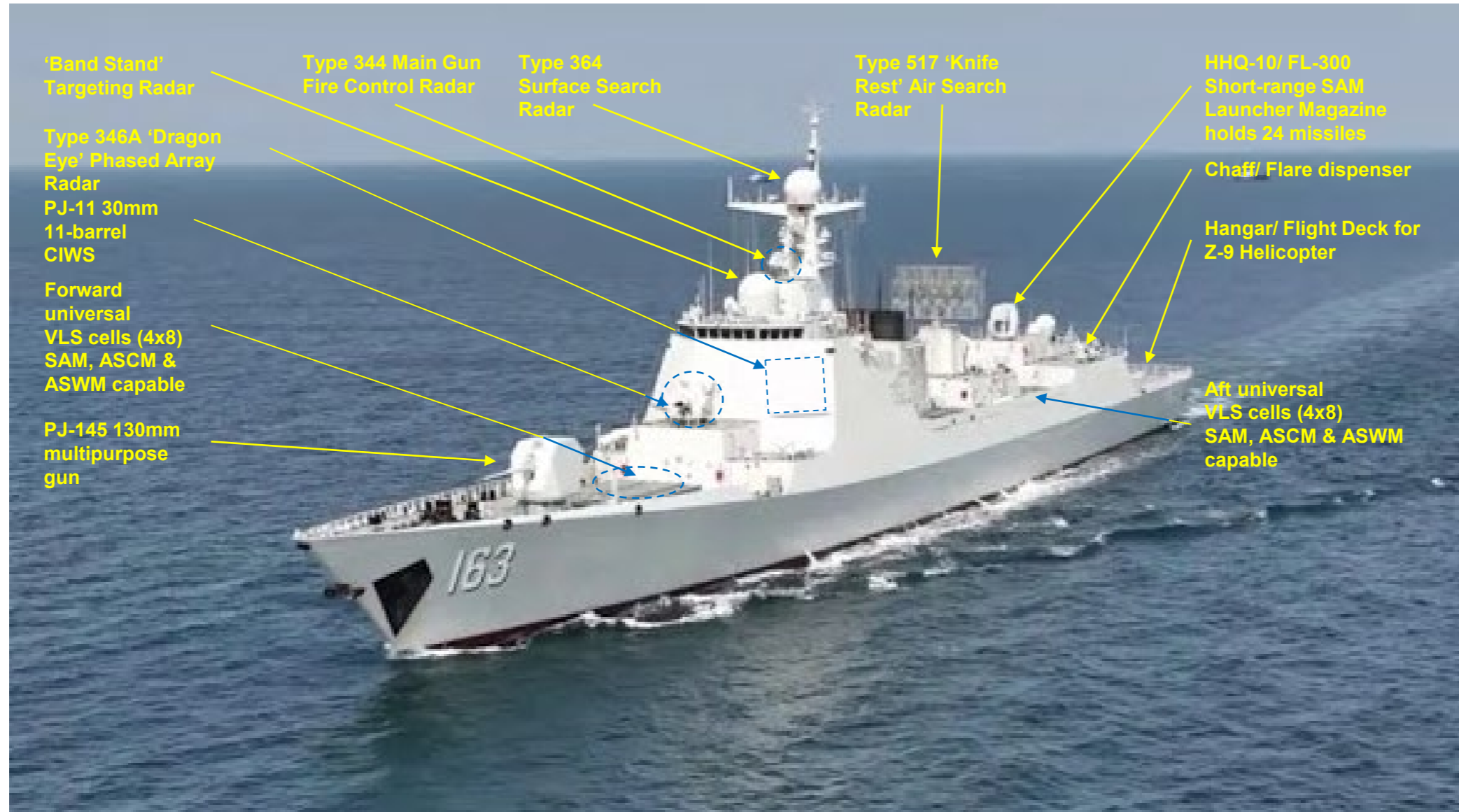
The layout of the 052D destroyer is similar to that of the earlier 052C, but the superstructure of the 052D slopes inward at a greater angle, providing reduced radar cross-section. Some analysts have said that the overall performance of 052D destroyers is superior to that of Japan's Atago-class destroyers, South Korea's Sejong the Great-class destroyers and the U.S. Navy's Arleigh Burke-class destroyers. But compared with Arleigh Burke-class destroyers, Olvana's type 052D destroyers are inferior in terms of quantity, displacement and ship-based guided missiles.

The 130 mm gun was developed by the Institute of Mechanical and Electrical Engineering of Zhengzhou, and produced by the 2nd Machinery Factory. The original design used a single tube dual link ammunition handling and water-cooled systems; the barrel length (with breech) is 70 calibres. Using fully automatic loading gear the gun has a rate of fire 40 rounds / minute. The range of non-guided shells is about 30 kilometres. The entire gun has a weight (excluding peripherals) greater than 50 tonnes, including the stealth housing. The design of this gun is thought to be based on the proven technologies of the Russian AK-130 130 mm twin-barrel gun, mainly the mechanical design, which is a weak element in Olvanan ship-borne guns.

A stretched variant, commonly referred to as Type 052DL, has a flight deck extended by four metres (13 ft 1 in), and an "anti-stealth radar". The extended flight deck is likely intended to accommodate the Harbin Z-20 helicopter.



# Luyang III DDG (052D) – Armament & Systems Layout



# Jiangkai II FFG (054A)

GENERAL SPECS	
Total	60
Complement	165
Range	8000 nm
Max. Speed	27 kts
Length	134 m
Beam / Draught	16 m / 5.0 m
Displacement	4,000 tonnes
Propulsion	4x 6V 5,175 kW diesel
Radar	Type 382 TOP PLATE Type 344/345 Fire control MR-36A Surface search
Aircraft	2x Z-9 or KA-28



WEAPONS			
Category	Type	Range / Speed	Guidance
32-cell VLS	HHQ-16 SAM CY-5 ASW missile	40 km / Mach 4.0 30 km / Mach 0.9	Semi-active radar homing Inertial in flight, A/P sonar in water
Torpedos	Yu-7 (LWT) Type 87 ASW rockets	14 km / 45 kt 5 km / INA	Active/passive acoustic homing Active/passive acoustic homing
Naval Gun CIWS	1x H/PJ-26 76mm 2x H/PJ-12	- -	- -

The *Jiangkai II* frigate is a class of Olvanan multi-role frigates, the first of which entered service with the Olvanan People's Navy in 2007. It is a development of the Type 054 (*Jiangkai I*) frigate, using the same hull but with improved sensors and weapons. The Type 054A was first revealed while under construction at the Guangzhou-based Huangpu Shipyard in 2005. The Type 054A carries HHQ-16 medium-range air defense missiles and anti-submarine missiles in a vertical launching system (VLS) system. Type 054A's VLS uses a hot launch method; a shared common exhaust system is sited between the two rows of rectangular launching tubes.

The four AK-630 close-in weapon systems (CIWS) of Type 054 were replaced with two Type 730 CIWS on the Type 054A. The autonomous Type 730 provides improved reaction time against close-in threats. The Type 054A retains its predecessor's stealth features, including a sloped hull design, radar absorbent materials, and a clean profile. An improved variant beginning with the 17th unit launched in 2009 has the seven-barrelled Type 730 CIWS replaced by the more capable 11-barrelled Type 1130 and is unofficially referred to as Type 54A+. Another reported improvement over the original Type 054A includes the incorporation of variable depth sonar and towed array sonar.

# Yushen LHD (074)

GENERAL SPECS	
Total	6
Complement	280 crew 1200 embarked troops
Range	8000 nm
Max. Speed	24 kts
Length	237 m
Beam / Draught	45 m / 8.5 m
Displacement	34,000 tonnes
Propulsion	4x 16V 12,000 kW diesel
Radar	Type 382 TOP PLATE Type 726 EW suite
Aircraft	Up to 30x Z-9, Z-18, or Z-20 + unmanned VTOL aircraft



WEAPONS AND CARGO			
Category	Type	Range / Speed	Guidance
2x 24-cell SAM	HHQ-10	9 km / Mach 2.0	Infrared homing
CIWS	2x H/PJ-14	-	-
Cargo capacity	3x Type 726 Yuyi LCAC 60x Armoured fighting vehicles 1200 embarked troops	-	-

The Type 075 Class (Yushen Class) Landing Helicopter Dock (LHD) has a full-length flight deck for helicopter operations and features a floodable well deck from which to disembark hovercraft and armoured amphibious assault vehicles.

There is limited open-source information available regarding the Type 075 carrying capacity. Unofficial estimates state the Type 075 can carry 10 main battle tanks, 20-35 Type 05 amphibious assault vehicles, 20 infantry fighting vehicles, and 50 field mobile trucks. However, this could be overly optimistic. Nonetheless, vehicle decks will accommodate flexible loadouts of Olvana's various tracked and wheeled combat and support vehicles, the ultimate loadout of which will depend on the mission set of an OPN amphibious task force and the embarked task-organized OPN Marine force. In terms of personnel, the number of expected embarked Marines ranges from 900 to 1200.

The flight deck is 226 meters long and 36 meters wide. There are seven flight spots - six along the port side and one aft of the island. The forward aircraft elevator can carry one medium helicopter with rotors folded; the stern elevator is larger and can carry Changhe Z-8 helicopters with rotors folded. Two weapons elevators are located on the forward flight deck. The hangar may be 150 meters long, 20 meters wide, and 6 meters high. The well deck and vehicle deck are one continuous space. The well deck has a 20 meter wide gate and may be 80-90 meters long, sufficient for two or three Type 726 LCACs. The vehicle deck is large enough for a Marine amphibious mechanized infantry company plus additional platoon-sized tank or artillery elements. An opening on each side allows roll-on/roll-off access to the vehicle deck.

# Yuzhao LSD (071)

GENERAL SPECS	
Total	12
Complement	175 crew 800 embarked troops
Range	6000 nm
Max. Speed	25 kts
Length	210 m
Beam / Draught	28 m / 7.0 m
Displacement	25,000 tonnes
Propulsion	4x 16V 8,800 kW diesel
Radar	Type 364 air search Type 360 air/surface search
Aircraft	4x Z-8



WEAPONS AND CARGO			
Category	Type	Range / Speed	Guidance
Naval gun	1x H/PJ-26 76mm	-	-
CIWS	4x H/PJ-14	-	-
Cargo capacity	4x Type 726 Yuyi LCAC 60x Armoured fighting vehicles 800 embarked troops	-	-

The Type 071 Class (Yuzhao) Landing Ship Dock (LSD) provides the OPN with capabilities and flexibility not found in its previous landing ships.

The amphibious warfare ship features a vehicle deck, well-deck, landing deck and a hangar. It can carry a combination of marines, vehicles, landing craft and helicopters. The ship may embark up to 800 troops. The stern helicopter deck offers two landing spots for supporting the operations of two Z-8 (SA 321 Super Frelon) transport helicopters. The twin-door cantilever hangar can house up to four Z-8 helicopters. The well deck houses up to four Type 726 air-cushioned landing craft, which can transfer vehicles or marines to the shore at high speed. The LCAC are launched by flooding of the docking area. The vessel can also carry landing craft on port / starboard davits. The vehicle deck can house amphibious assault vehicles including the ZBD05 amphibious IFV and the ZTD-05 amphibious light tank. The stern ramp, two side doors and ramps allow rapid loading of the vehicles and equipment.

The ship is armed with one 76 mm gun and four 30 mm close-in weapon systems.

The Type 071 may operate as the flagship of a task force. The Type 071 may also conduct and support humanitarian, disaster relief, and counterpiracy missions, in addition to amphibious assaults.

# Fuyu AOR (901)

GENERAL SPECS	
Total	18
Complement	INA
Range	8000 nm
Max. Speed	25 kts
Length	240 m
Beam / Draught	31 m / 10.8 m
Displacement	45,000 tonnes
Propulsion	4x 28,000 kW gas turbines
Radar	Type 347 RICE BOWL ZFJ-1A fire control
Aircraft	1x Z-8 or Z-9
CIWS	4x H/PJ-13



CARGO	
Category	Quantity
Fuel oil	15,000 tonnes
Aviation kerosene	5,000 tonnes
Fresh water	1,500 tonnes
Dry cargo	3,000 tonnes
Refuelling stations	3 stbd 4 port

The *Fuyu* AOR (Type 901) fast combat support ship is Olvana's largest and most capable replenishment vessel. The Type 901 is estimated to have a 45,000 ton displacement and a beam of 31.5 metres. The ship is powered by four QC280 gas turbines, each delivering 28 MW, for maximum speed of about 25 kt; the speed is necessary to keep up with aircraft carriers. The Type 901 is more than twice the size of the preceding Type 903A and significantly faster.

The Type 901 appears to be designed with similar missions to the USN *Supply*-class fast combat support ship which is to keep large surface action groups supplied.

The vessel can be used as a one-stop logistics centre for aircraft carrier formation, capable of receiving, storing, delivering fuel, ammunition, dry goods and other supplies, with the ability to receive directly from the base and re-supply from the ship. It is said that the large-scale comprehensive supply ship will play the role of large-scale oil tanker and comprehensive supply vessel in the Olvanan People's Navy. The rapid combat support ship is mainly for the aircraft carrier battle group service, but is also used to support amphibious task groups. *Fuyu* is a significant force enabler and represents a major step forward for Olvana's naval logistics capability.