

Appx A

(Refers to Para 7)

ISR AERIAL PLATFORMS

<u>S No</u>	<u>Parameters</u>	<u>Reqmt</u>
1.	Msn Rg	Min turnaround dist of 10 Kms
2.	Op Alt	(a) Launch alt upto 16,000 ft (4877m) (b) Op alt upto 20,000 ft (6096m)
3.	Op Temp	- 35°C to +40°C
4.	Endurance	Min 60 mins with max AUW
5.	Navig Sp	<i>NavIC compatibility desirable</i> <i>Op in GPS denied environment desirable</i>
6.	Launch & Recovery	Unprepared area of approx 10m x 10m
7.	Sys Reqmts	(a) Live data & video relay (b) <i>BITE & Modular make</i>
8.	Serviceability	<i>Min 2 yrs warranty & post warranty sp for min 5 yrs</i>
9.	All up wt	As per sys reqmt - <u>Capb of withstanding wind current upto 20 knots (10 m/s)</u>
10.	Payload	(a) DTV (b) TI Camera (c) Any Other

11.	Misc	Return to Home
-----	------	----------------

Appx B

(Refers to Para 7)

LOITERING MUNITIONS AND KAMIKAZE DRONES

<u>S No</u>	<u>Parameters</u>	<u>Reqmt</u>
1.	Role	(a) Svl (b) Kamikaze (c) Early Warning (d) Any Other capb
2.	Msn Rg	Min Turnaround dist of 10 km
3.	Op Alt	(a) Launch alt upto 16,000 ft (4877m) (b) Op alt upto 20,000 ft (6096m)
4.	Op Temp	- 35°C to +40°C
5.	Accuracy	(a) Static Tgt: Within min 01 m radius (b) Moving Tgt: Within min 03 m radius
6.	Endurance	Min 60 mins with max AUW
7.	Navig Sp	<i>NavIC compatibility desirable</i> <i>Op in GPS denied environment desirable</i> <i>Anti-jamming / spoofing capability desirable</i>
8.	Launch & Recovery	Launch & land capb on unprepared area of not more than 10m x 10m
9.	Sys Reqmts	(a) Live data & video relay (b) BITE & Modular make
10.	Serviceability	<i>Min 2 yrs warranty & post warranty sp for min 5 yrs</i>
11.	Misc	Return to Home, Emergency Abort, Remote Arming of payload, Alternate Target Allocation, Autonomous Homing

Appx C

(Refers to Para 7)

LOGISTIC DRONES

<u>S No</u>	<u>Parameters</u>	<u>Reqmt</u>
1.	Msn Rg	Min Turnaround dist of 10 km
2.	Op Alt	(a) Launch alt upto 16,000 ft (4877m) (b) Op alt upto 20,000 ft (6096m)
3.	Op Temp	- 35°C to +40°C
4.	Endurance	Min 60 mins with max AUW
5.	Navig Sp	<i>NavIC compatibility desirable</i> <i>Op in GPS denied environment desirable</i>
6.	Launch & Recovery	Launch & land capb on unprepared area of not more than 10m x 10m
7.	Serviceability	<i>Min 2 yrs warranty & post warranty sp for min 5 yrs</i>
8.	Sys Reqmts	(a) Live data & video relay (b) BITE & Modular make
9.	Payload/ Wt Carrying Capacity	Min 20 kgs at 13,000 – 16,000ft & min 10 kgs above that
10.	Misc	Return To Home, Autonomous Operation, Operation without LOS/RLOS

Appx D

(Refers to Para 7)

SWARM DRONES

<u>S No</u>	<u>Parameters</u>	<u>Reqmt</u>
1.	Role (all or any of the mentioned capb)	(a) Svl (b) Lgs (c) Soft kill & Hard kill (d) Any other capb
2.	Msn Rg	Min Turnaround dist of 10 km
3.	Op Alt	(a) Launch alt upto 16,000 ft (4877m) (b) Op alt upto 20,000 ft (6096m)
4.	Op temp	- 35°C to +40°C desirable
5.	Endurance	Min 60 mins with max AUW
6.	Navig Sp	<i>NavIC compatibility desirable</i> <i>Op in GPS denied environment desirable</i>
7.	Launch & Recovery	Launch & land capb on unprepared area of not more than 25 x 25m
8.	Configuration	Min five drones per Swarm – op all drones by single GCS
9.	Flt Mode	Autonomous, Mother ship concept, Self-Healing Control Link, Distributed control,
10.	Serviceability	<i>Min 2 yrs warranty & post warranty sp for min 5 yrs</i>
11.	Sys Reqmts	(a) Live data & video relay (b) BITE & Modular make

Appx E

(Refers to Para 7)

FPV DRONES

<u>S No</u>	<u>Parameters</u>	<u>Reqmt</u>
1.	Role	(a) Svl (b) Kamikaze (c) Any other
2.	Msn Rg	Min Turnaround dist of 3 Km
3.	Op Alt	(a) Launch alt upto 16,000 ft (4877m) (b) Op alt upto 20,000 ft (6096m)
4.	Op Temp	- 35°C to +40°C
5.	Endurance	Min 30 mins with max AUW
6.	Launch & Recovery	Launch & land capb on unprepared area of not more than 5 x 5m
7.	Navig Sp	NavIC compatibility desirable Op in GPS denied environment desirable
8.	Sys Reqmts	(a) Live data & video relay (b) BITE & Modular make
9.	Serviceability	Min 2 yrs warranty & post warranty sp for min 5 yrs
10.	Max winds	Capb of withstanding wind speeds upto 10 knots (5 m/s)

Appx F

(Refers to Para 7)

GROUND SURFACE DRONES/ROBOTS

<u>S No</u>	<u>Parameters</u>	<u>Reqmt</u>
1.	Role	(a) ISR (b) Logistics Carriage (c) Casualty Evacuation (d) Weapons Payload (e) Any other
2.	Msn Rg	Min Turnaround dist of 5 Km
3.	Op Alt	Operation alt upto 20,000 ft (6096m)
4.	Op Temp	- 35°C to +40°C
5.	Load Capacity	For Logistics – minimum 200 Kg For other specific tasks – as per requirement
6.	Endurance	Min 120 mins with max AUW
7.	Operation	Autonomous pt to pt navigation, remote operation through radio link (LOS & NLOS), remote payload control
8.	Navigation	NavIC compatibility desirable Op in GPS denied environment desirable
9.	Sys Reqmts	(a) Live data & video relay (b) BITE & Modular make
10.	Serviceability	Min 2 yrs warranty & post warranty sp for min 5 yrs
11.	Driveability	Over undulating and rocky, loose earth, boggy terrain with gradient negotiation capability of not less than 30 deg vertical and 20 deg lateral with max load.

Appx G

(Refers to Para 7)

WATER SURFACE / UNDER WATER DRONES

<u>S No</u>	<u>Parameters</u>	<u>Reqmt</u>
1.	Role	(a) ISR (b) Logistics Carriage (c) Fire Support (d) Destruction of water borne enemy vehicles (e) Any other
2.	Msn Rg	Min Turnaround dist of 20 Km
3.	Op Alt	Operation alt upto 16,000 ft (4877m)
4.	Op Temp	- 35°C to +40°C
5.	Load Capacity	For Logistics – minimum 200 Kg For other specific tasks – as per requirement
6.	Endurance	Min 120 mins with max AUW
7.	Operation	Autonomous pt to pt navigation, remote operation through radio link (LOS & NLOS), remote payload control
8.	Navigation	NavIC compatibility desirable Op in GPS denied environment desirable
9.	Sys Reqmts	(a) Live data & video relay (b) BITE & Modular make
10.	Serviceability	Min 2 yrs warranty & post warranty sp for min 5 yrs