

L I M I T E D T E N D E R
N O T I C E

Tender Ref. No.

Date Tender Due Date

GEN-29/9/2021-DSP_DIV-SMR-CHE-SMR CHE DEPTT-11236 24-03-2021 09-04-2021

To

Dear Sir,

The Purchase Officer, SAMEER-Centre for Electromagnetics invites sealed tender for the supply of materials / Services as per details given below:

Sl. No	Description of Items	Qty(Nos.)
1.	Procurement of Mavic Mini Combo drone (Specification Attached)	1

Terms and Conditions:

1. Tenders to be submitted to The Purchase Officer ,SAMEER-CEM ,CIT Campus,2nd Cross Road, Taramani, Chennai 600 113.
2. Delivery / Completion period should be clearly indicated.
3. Excise Duty, GST Percentage should be clearly indicated if admissible. Not eligible for FORM 'C' /'D'
4. WE ARE EXEMPTED FROM EXCISE DUTY
5. Quotation should be valid for atleast 60 days from the date of opening of the tender
6. Quotation should be sent in sealed envelop super scribing the tender reference number and tender due date.
E-mail quotation will not be accepted. YOUR OFFER WILL NOT BE CONSIDERED IF OUR TENDER REFERENCE NO. & TENDER DUE DATE IS NOT MENTIONED ON COVER.
7. Late tenders will not be accepted under any circumstances
8. We reserve the right to accept or reject any quotations fully or partly without assigning any reasons.
9. For Further Clarification Please Contact 044-22544061 / 22544020 Email: purchase.chn.sameer@nic.in
10. Unsolicited bids shall not be considered

P. Ramamoorthi
24/03/2021
(P. Ramamoorthi)
Head - Administration

Contd.,



CIT Campus, 2nd Cross Road, Taramani, Chennai - 600 113, India

सी.आई.टी.परीसर, दूसरा क्रॉस रोड, तारामनी चेन्नै - ६०० ११३.

दूरभाषिन : Tel : +91-44-22541583 / 1817 / 2106 / 2452 फैक्स / Fax : 2254 1938 / 1424

वेबसाईट : www.sameer.org.in

Specification

Aircraft

Take off Weight	249 g
Dimensions	Folded: 140×81×57 mm (L×W×H) Unfolded: 159×202×55 mm (L×W×H) Unfolded (with propellers): 245×289×55 mm (L×W×H)
Diagonal Distance	213 mm
Max Ascent Speed	4 m/s (S Mode) 2 m/s (P Mode) 1.5 m/s (C Mode)
Max Descent Speed	3 m/s (S Mode) 1.8 m/s (P Mode) 1 m/s (C Mode)
Max Speed (near sea level, no wind)	13 m/s (S Mode) 8 m/s (P Mode) 4 m/s (C Mode)
Maximum Take off Altitude	3000 m
Max Flight Time	30 minutes (measured while flying at 14 kph in windless conditions)
Max Wind Speed Resistance	8 m/s (Scale 4)
Max Tilt Angle	30° (S Mode) 20° (P Mode) 20° (C Mode)
Max Angular Velocity	150°/s (S Mode) 130°/s (P Mode) 30°/s (C Mode)
Operating Temperature Range	0° to 40°C (32° to 104°F)
Operating Frequency	Model MT1SS5: 5.725-5.850 GHz Model MT1SD25: 2.400-2.4835 GHz, 5.725-5.850 GHz
Transmission Power (EIRP)	Model MT1SS5 5.8 GHz: <30 dBm (FCC); <28 dBm (SRRC) Model MT1SD25 2.4 GHz: <19 dBm (MIC/CE) 5.8 GHz: <14 dBm (CE)
GNSS	GPS+GLONASS
Hovering Accuracy Range	Vertical: ±0.1 m (with Vision Positioning), ±0.5 m (with GPS Positioning) Horizontal: ±0.3 m (with Vision Positioning), ±1.5 m (with GPS Positioning)

Gimbal

Mechanical Range	Tilt: -110° to 35° Roll: -35° to 35° Pan: -20° to 20°
Controllable Range	Tilt: -90° to 0° (default setting) -90° to +20° (extended)
Stabilization	3-axis (tilt, roll, pan)
Max Control Speed (tilt)	120°/s
Angular Vibration Range	±0.01°

Sensing System

Downward	Operating Range: 0.5-10 m
Operating Environment	Non-reflective, discernable surfaces Diffuse reflectivity (>20%) Adequate lighting (lux>15)

Camera

Sensor	1/2.3" CMOS Effective Pixels: 12 MP
Lens	FOV: 83° 35 mm Format Equivalent: 24 mm Aperture: f/2.8 Shooting Range: 1 m to ∞
ISO Range	Video: 100-3200 (Auto) 100-3200 (Manual) Photo: 100-1600 (Auto) 100-3200 (Manual)
Shutter Speed	Electronic Shutter: 4-1/8000s

Still Image Size	4:3: 4000×3000 16:9: 4000×2250
Still Photography Modes	Single shot Interval: 2/3/5/7/10/15/20/30/60 s
Video Resolution	2.7 K: 2720×1530 25/30 p FHD: 1920×1080 25/30/50/60 p
Max Video Bitrate	40 Mbps
Supported File System	FAT32 (≤32 GB) exFAT (>32 GB)
Photo Format	JPEG
Video Format	MP4 (H.264/MPEG-4 AVC)
Remote Controller & Video Transmission	
Operating Frequency	Model MR1SS5: 5.725-5.850 GHz Model MR1SD25: 2.400-2.4835 GHz, 5.725-5.850 GHz
Max Transmission Distance (unobstructed, free of interference)	Model MR1SS5 5.8 GHz: 4000 m (FCC); 2500 m (SRRC) Model MR1SD25 2.4 GHz: 2000 m (MIC/CE) 5.8 GHz: 500 m (CE)
Operating Temperature Range	0° to 40°C (32° to 104°F)
Transmission Power (EIRP)	Model MR1SS5 5.8 GHz: 5.8 GHz: <30 dBm (FCC); <28 dBm (SRRC) Model MR1SD25 2.4 GHz: <19 dBm (MIC/CE) 5.8 GHz: <14 dBm (CE)
Battery Capacity	2600 mAh
Operating Current/Voltage	1200 mA 3.6 V (Android) 450 mA 3.6 V (iOS)
Supported Mobile Device Size	Max length: 160 mm Max thickness: 6.5-8.5 mm
Supported USB Port Types	Lightning, Micro USB (Type-B), USB Type-C
Video Transmission System	Enhanced Wi-Fi
Live View Quality	720p/30fps
Max. Bitrate	4 Mbps
Latency (depending on environmental conditions and mobile device)	170-240 ms
Charger	
Input	100-240 V, 50/60 Hz, 0.5A
Output	12V 1.5 A / 9V 2A / 5V 3A
Rated Power	16 W
Intelligent Flight Battery	
Capacity	2400 mAh
Voltage	7.2 V
Max Charging Voltage	8.4 V
Battery Type	Li-ion 2S
Energy	17.28 Wh
Net Weight	100 g
Charging Temperature Range	5° to 40°C (41° to 104°F)
Max Charging Power	24 W
Intelligent Flight Battery (1100 mAh)	
Capacity	1100 mAh
Voltage	7.6 V
Max Charging Voltage	8.7 V
Battery Type	LiPo 2S
Energy	8.36 Wh
Net Weight	50 g
Charging Temperature Range	5° to 40°C (41° to 104°F)
Max Charging Power	18 W
APP	
Name	DJI Fly
Required Operating System	iOS v10.0 or later Android v6.0 or later