

Annexure-I

Sr: No	Tender Specifications
	Multispectral Camera
1.	<u>Spectral Bands (colour, wavelength, bandwidth):</u> It should have <ul style="list-style-type: none"> • Blue (475 nm center, 20 nm bandwidth) • Green (560 nm center, 20 nm bandwidth) • Red (668 nm center, 10 nm bandwidth) • red edge (714 nm center, 10 nm bandwidth) • near-IR (840 nm center, 40 nm bandwidth) or better
2.	<u>RGB Output:</u> It should have at-least 3.6 MP Global shutter, aligned with all bands or better.
3.	<u>Ground Sample Distance:</u> It should have at-least 8 cm per pixel (per band) at 120 m AGL or better
4.	<u>Capture Rate:</u> It should capture at-least 1 capture per second (all bands), 12 bits RAW or better.
5.	<u>INTERFACES:</u> It should have below listed interfaces: <ul style="list-style-type: none"> a. Serial. b. 10/100/1000 ethernet. c. Removable Wi-Fi. d. External Trigger (GPIO, PWM, Serial and Ethernet Options) e. GPS f. SDHC
6.	<u>Field of View:</u> It should have at-least 47.2-degree HFOV or better.
7.	<u>Custom Bands:</u> 400nm – 900nm or better
8.	<u>Triggering Options:</u> Below listed triggering options should be present: <ul style="list-style-type: none"> a. Timer mode. b. Overlap mode. c. External trigger mode d. Manual capture mode.
9.	<u>Heat:</u> 0- 40°C ambient (no airflow) or better; 0-50°C ambient (with airflow) >0.5m/s or better
10.	<u>Operating Temperature:</u> 0° to 50° C or better
11.	<u>Accessories to be provided with the camera:</u> <ul style="list-style-type: none"> 1. Lens Cover- 2 nos. 2. Calibrated Reflectance Panel. 3. Necessary Cable sets. 4. Mounting Screws for drone attachment. 5. Hard Carrying Case for camera. 6. Light Sensor/ Sunshine Sensor 7. Data Storage: SDHC 64GB (Minimum), Class 10 SD card with a write-speed capability of at least 40 MB/s and read-speed capability of at least 90MB/s.
12	<u>Warranty:</u> One year onsite warranty
13	<u>Delivery:</u> CSIR-CMERI CoEFM, Gill Road, Ludhiana, Punjab- 141006

