

TECHNICAL SPECIFICATIONS OF THE REQUIRED PRODUCT

Ortho Product

S.No.	Parameter	Description
1.	Product Type	Ortho Product
2.	Area Name/size in Sqkm	Leh: 160 sq. km
3.	Spatial Resolution	0.5 m or less (Finer) Ground Sampling Distance (GSD)
4.	Radiometric Resolution	10 bit or higher
5.	Bands	4 Bands: RGB,NIR (for Ortho Product)
6.	Period of interest	2022 or later
7.	Cloud% acceptable	Less than 15%
8.	Off Nadir Angle (ONA) acceptable	Less than 30 Degree
9.	Delivery Media	DVD / Hard disk / FTP/ Online Download
10.	Datum / Projection	WGS 84 UTM (43N)
11.	Resampling Kernel	Bilinear interpolation or cubic convolution resampling
12.	Format	Geo-Tiff
13.	Geolocation Accuracy	Horizontal Accuracy: 3.0 m or less RMSE & CE90 5.0 m or less (absolute)
14.	Any other additional/ Specific requirements	<ul style="list-style-type: none">• Ensure color balancing across images, if multiple images are mosaicked.• Metadata must be included with the data• Sensor artifacts should be less than 2%

DSM and DTM

S.No.	Parameter	Description
1.	Product Type	Digital Surface Model (DSM) and Digital Terrain Model (DTM)
2.	Area Name/size in Sq. km	Leh: 160 sq. km
3.	Resolution	0.5 m in both x and y dimensions
4.	Period of interest	2022 or later
5.	Delivery Media	DVD / Hard disk / FTP / Online Download
6.	Datum / Projection	WGS 84 UTM (43N)
7.	Format	Geo-Tiff
8.	Data Type	Float
9.	Horizontal Accuracy	3.0 m or less RMSE & CE90 5.0 m or less (absolute)
10.	Vertical Accuracy	2 m RMSE or less / 3m LE90 or less (absolute)
11.	Any other additional/ Specific requirements	<ul style="list-style-type: none">• Void areas should be coded using a standard NODATA value.• Mask applied (if any) shall be provided.• Metadata must be included with the data.• Mention the period of data acquisition and satellite-sensors used for generating DSM and DTM.• Ortho Image and DSM/DTM should be registered with each other.