



অসম ৰাজ্যিক মহাকাশ প্ৰয়োগ কেন্দ্ৰ  
(বিজ্ঞান, প্ৰযুক্তি আৰু জলবায়ু পৰিৱৰ্তন বিভাগ, অসম চৰকাৰ)

**ASSAM STATE SPACE APPLICATION CENTRE**

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No.ASSAC/Tech/106/SLIS-G/2023/743

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**ANNEXURE - I  
FOREIGN SATELLITE DATA PROCUREMENT  
TECHNICAL SPECIFICATIONS**

**Refer to next page for revised Technical specifications**

Sl.No.	Parameter	Description
1.	Name of the Shape file	GMDA Guwahati.kml
2	Size of the shape file in Sq. Kms	378.76 sq.km
3	Product Type	a) Any Satellite Data with native spatial resolution of 0.3m or better raw data, PAN sharpened & re-sampled to 0.3 m spatial resolution, archived data set – 1 No. during the period Oct'2022 to March 2023 b) Any Satellite Data with native spatial resolution of 0.5m or better, fresh tasking on monthly basis for the period June 2023 to Feb'2024 – total 9 sets, Pan sharpened & Resampled to 0.5m or better
4	Resolution	Panchromatic - True 30cm GSD at Nadir Multi-Spectral –1.2m (GSD) at Nadir
5	Spectral Bands	7 Band image-( 1 Pan + 6 Multi-spectral Bands) Bands must be co-registered and from same satellite platform Pan: 450-800nm Multispectral bands: •Deep Blue: 400-450nm •Blue: 450-520nm •Green: 530-590nm •Red: 620-690nm •Red-Edge: 700-750nm •Near Infrared: 770-880nm
6.	Fresh Tasking / Archive data	Archive/Fresh both
7.	Period of interest	1st Jan 2021 to till date
8.	Cloud% acceptable	≤ 10%, but preferable 0 % in the core town/city, Less than 10% in the periphery of town/city limits. Cloud free data is preferable.
9.	Off nadir Angle (ONA) acceptable	≤ 10 Degrees, Off nadir angle: Less than 10 degree from nadir. In specific cases, maximum up to 15 degrees view angle shall be allowed
10.	Delivery Media	Hard Disk/FTP
11.	Datum / Projection	UTM, WGS-84
12.	Resampling Option	MTF Kernel / Enhanced Kernel or any Industry Standard Technique
13.	Format	Geo tiff
14.	Swath	Swath 14km at Nadir
15.	Dynamic Range	12-bit radiometry

  
Signature of Indenter  
Name: PLN Raju, Director

**ANNEXURE - I**  
**FOREIGN SATELLITE DATA PROCUREMENT**  
**TECHNICAL SPECIFICATIONS (AFTER PREBID MEETING)**

**Revised Technical Specifications**

<b>Sl.No.</b>	<b>Parameter</b>	<b>Revised Description</b>
<b>1.</b>	Name of the Shape file	GMDA Guwahati.kml
<b>2</b>	Size of the shape file in Sq. Kms	378.75 sq.km
<b>3</b>	Product Type	a) Any Satellite Data with native spatial resolution of 0.3m or better raw data, Ortho-rectified, PAN sharpened & re-sampled to 0.3 m spatial resolution, archived data set – 1 No. during the period Oct'2022 to March 2023 b) Any Satellite Data with native spatial resolution of 0.5m or better, fresh tasking on monthly basis for the period June 2023 to Feb'2024 – total 9 sets, Ortho-rectified, Pan sharpened & Re-sampled to 0.5m or better
<b>4</b>	Resolution	a)Panchromatic - True 30cm GSD at Nadir Multi-Spectral –1.2m (GSD) at Nadir For archival data b)Panchromatic -50cm resolution OR better multispectral – 2.5 m resolution OR better for fresh tasking
<b>5</b>	Spectral Bands	5 Band image - (1 Pan + 4 Multi-spectral Bands) Bands must be co-registered and from same satellite platform. The required bands are PAN, Blue, Green, Red and Infrared
<b>6.</b>	Fresh Tasking / Archive data	Archive and Fresh tasking (both)
<b>7.</b>	Period of interest	a) 1st Jan 2022 to till date for the archived data b) June/July to February/March (nine data sets monthly) for fresh tasking.
<b>8.</b>	Cloud % acceptable	< 10% (Less than Ten Percent).
<b>9.</b>	Off nadir Angle (ONA) acceptable	a) Archival Data $\leq 25$ Degrees off Nadir Angle b) Fresh tasking $\leq 25$ degrees off Nadir angle for 8 no of Data sets, and request to supply one data set with $\leq 10^\circ$ ONA out of the total 9 datasets, if practically possible to acquire.
<b>10.</b>	Delivery Media	Hard Disk/FTP
<b>11.</b>	Datum / Projection	UTM, WGS-84
<b>12.</b>	Resampling Option	MTF Kernel / Enhanced Kernel or any Industry Standard Technique
<b>13.</b>	Format	Geo tiff
<b>14.</b>	Swath	Minimum swath coverage 10 KM at Nadir
<b>15.</b>	Dynamic Range	10-bit or better



Signature of Indenter  
Name: PLN Raju, Director  
Date & Seal