

PRICE LIST OF ARSAC GENERATED OUTPUTS based on REMOTE SENSING, GIS & GPS

A) Printing and Reproduction Cost of Composed Maps:

Sl.No.	Map / Data Type	Unit Area of Coverage	Unit Cost (Rs.)	Remarks
1	Cost of Printing / Plotting of Digital Vector Data: a) Per Sheet A0 size	1:50K / 1:10K grid Or District	1000.00	Reproduction from existing Legacy Data. The cost will remain same for specific size irrespective of scale
	b) Per Sheet A2 size	1:50K / 1:10K grid Or District	500.00	
2	Reproduction Charges : a) Xerox Prints (A3 size)	1:50K / 1:10K grid	350.00	-do-
	b) Ammonia Prints	1:50K grid Or 1:250K District	400.00	
	c) RTF Prints	1:50K grid Or 1:250K District	500.00	
3	Digital Data in Image Format (JPEG/ PPT etc.)	1:50K / 1:10K grid Or District Map	1000.00	-do-

B) Digital Data in Vector Format-GIS Ready:

Sl.No.	Map / Data Type	Unit Area of Coverage	Unit Cost (Rs.)	Remarks
1	Landuse / Landcover	1:50K SOI grid	4,000.00	from existing Legacy Data
		1:10K SOI grid	2,500.00	
		District (1:50K /10K)	15,000.00	
2	Wetlands (includes river/ stream & other waterbodies)	1:50K SOI grid	2,500.00	-do-
		1:10K SOI grid	1,500.00	
		District (1:50K /10K)	10000.00	
3	Wasteland	1:50K SOI grid	1000.00	-do-
		1:10K SOI grid	1000.00	
		District (1:50K /10K)	5500.00	
4	Land Degradation Mapping (LDM)	1:50K SOI grid	1000.00	-do-
		District (1:50K)	3500.00	
5	Infrastructure (Road /Rail)	1:50K SOI grid	1500.00	-do-
		1:10K SOI grid	2500.00	
6	River/Stream	1:50K SOI grid	1500.00	-do-
		1:10K SOI grid	2500.00	
7	Settlement	1:50K SOI grid	1000.00	-do-
8	Village Boundary with census 2011 attribute	Per District	25.000.00	

N.B: The Unit Price quoted as above is valid for one year and to be revised periodically

C) Price of Digital Vector data (to be customised from legacy data)-GIS Ready

Sl.No.	Items: Data Type in .shp file format	Unit Areal Extent	Unit Cost in (Rs.)	Remarks
1	Administrative layers			
	State Boundary	Entire State	2500.00	Polygon
	District Boundary and Head Quarters	Entire State	10000.00	Polygon
	Circle Boundary	Per District	5000.00	Polygon
	Circle Boundary with villages	Per Circle	10000.00	Polygon
	Block Boundary	Per District	5000.00	Polygon
	Block Boundary with villages	Per Block	10000.00	Polygon
	Village Boundary and Census Attributes	1:50 K SOI grid	4500.00	Polygon
	Panchayat / VCDC (having village polygon)	Per Block	10000.00	Polygon
	Cadastral Maps (Restricted)	Per Sheet	2500.00	Polygon
2	Transport Layers:			
	National Highway, State Highway, Rail	1:50 K SOI grid	1000.00	Line layer
	District Road, Village Road	1:50 K SOI grid	2500.00	Line layer
	City / Town Road	1:10 K SOI grid	10000.00	Line layer
3	Forest Information Layers			
	Protected and Reserve Forest Boundaries	Entire State	150000.00	Polygon
	Forest cover status (Dense,Open,Grassland,Plantation etc.)	Per District	15000.00	Polygon
	Tree Clad (Forest outside notified area)	1:50K SOI grid	15000.00	Polygon
3	Electoral Information Layers			
	Parliamentary Constituency with village boundary	Per Constituency	10000.00	Polygon
	Assembly Constituency with village boundary	Per Constituency	10000.00	Polygon
	Polling Stations (Subject to inputs from Departments)	Per Constituency	15000.00	Point layer
4	Watershed Information (As per NBSS-Atlas)with code	Per District	10000.00	Polygon
5	Water Information Layers (based on 1:10K mapping)			
	Water bodies (Pond,Beel,Lake)	Per District	15000.00	Polygon
	River /Stream (Line & Poly)	Per District	25000.00	Line & Polygon
	Canal Network	Per District	15000.00	Line
6	Agriculture Information (based on 1:50 K mapping)			
	Net Sown area	Per District	10000.00	Polygon
	Kharif /Rabi/Zaid/Doble/Multiple Crop area	Per District	25000.00	Polygon
	Household/ Homestead Plantation	Per District	15000.00	Polygon
	Tea Gardens	Per District	15000.00	Polygon
	Current Fallow	Per District	10000.00	Polygon
7	Soil Information System (NBSS Legacy Data, 1:250K) :			
	(Soil Taxonomy, Land Capability, Depth, Texture)	Entire State	150000.00	Polygon
8	Wasteland (Based on 1:50K)			
	(Scrub land, Waterlogged, sandy, stony waste)	Entire State	150000.00	Polygon
9	Assets Mapping (Geotagging with BHUVAN)			
	Using Android based Mobile Apps	Per Panchayat	75000.00	Point layer
10	DRONE OR UAV Survey : Analysis, Operation Cost, DGPS points, Post Aalysis & output generation (within the state)	Per sq. km	50,000.00	To be Customised as per user's need. Detail as per clause F*

D. Customised Cost for Fresh interpretation and creation of GIS database for one effective 1:50K SOI topomap to cover an area i.e.650 sq.km (approx.)

Sl.No.	(A)Cost of Interpretation of satellite data	Total (in Rs)
a.	Analysis cost (Salary of project scientist @Rs30000/- per month (Time required for interpretation and integration is 1 month)	30000
b.	GT Collection (2 days per mapsheet)	10000
	Field cost for transport for 4 days (@2500 * 4 days) includes to & fro	
c.	DA @350 for 4 days	1400
d.	System Cost (Rs90 /-per hr x 8 hrs x 30days) (30 mandays @Rs90/- per hour)	21600
e.	Internal QC (1 day per sheet) @ Rs1000/-	1000
f.	Internal QC System cost (1d for 8hrs @Rs90 per hr.)	720
g.	SUB TOTAL (A)	64720
	(B)Cost for carrying out analysis of interpreted digitized maps	Total (in Rs)
h.	Analysis cost (Salary @Rs30000/- per month for 3 days)	3000
i.	System Cost (3 mandays @Rs90/- per hour)	2160
j.	Internal QAS (0.5days per sheet) @Rs.1000/- per day	500
k.	System cost (0.5days @ Rs90/- per Hr. i.e for 4 Hrs) for Internal QAS	360
l.	SUB TOTAL (B)	6020
m.	TOTAL OF (A) + (B)	70740
n.	Overheads (@8%) on Sl.No.(m)	5660
Cost for one effective map sheet (area of coverage as per 1:50K SOI topomaps)		76400
(Rupees Seventy six thousand four hundred only)		
i.e.Rs.76400/- for creation of GIS ready each map sheet area (excluding satellite data cost to be used for the specific project)**		

Note: GT:Ground truthing, QC:Quality Check

** Cost of satellite data varies depending on type of data to be used (i.e.satellite sensor to be used depending on resolution) and is depends on type of application and desired scale of mapping . Price list of Indian Remote Sensing satellites data are as enclosed. The total cost of satellite data will depend on number of scenes required to cover the Area of Interest of the project.

IRS SATELLITE DATA PRODUCTS PRICE LIST			
(Price in Rupees)			
High Resolution			
S No	Product Type	Accuracy (CE90) in meters	Price
1.0 PAN (1m) (Cartosat-2)			
1.1	Mono Geo-referenced/Ortho kit 9.6 km x 9.6 km	100	2,440
1.2	Ortho Corrected 9.6 km x 9.6 km	15	2,890
2.0 PAN - A/F (2.5m) (Cartosat-1)			
2.1	Mono Geo-referenced/Ortho kit 27.5 km x 27.5 km	50	4,440
2.2	Stereo Ortho kit 27.5 km x 27.5 km	220	5,110
2.3	Ortho Corrected 27.5km X 27.5km	15	6,450
2.4	CartoDEM 14km X 14km	15	6,290
3.0 LISS- 4 MX (5m) (Resourcesat-1,2)			
3.1	Geo-referenced/Ortho kit 23.5 km x 23.5 km	50	1,540
3.2	Geo-referenced/Ortho kit 70 km x 70 km	50	4,170
3.3	Ortho rectified 70 km x 70 km	20	10,470
4.0 MICROWAVE (1m - 50m) (RISAT-1)			
4.1	Georeferenced SAR (FRS-1/FRS-2/MRS/CRS)	200	4,890
Medium Resolution			
S No	Product Type	Accuracy (CE90) in meters	Price
5.0 LISS - III (24m) (Resourcesat-2)			
5.1	Geo-referenced/Ortho kit 141 km x 141 km	100	3,520
5.2	Ortho rectified 141 km x 141 km	50	6,870
6.0 AWiFS (56m) (Resourcesat-2)			
6.1	Full Scene Geo-referenced 740 km X 740 km	150	7,420
6.2	Full Scene Ortho Rectified 740 km X 740 km	100	15,770
6.3	Quadrant Gec-referenced/ Ortho kit 370 km X 370 km	150	4,030
6.4	Quadrant Ortho rectified 370 km X 370 km	100	6,420
Low Resolution			
S No	Product Type	Accuracy (CE90) in km	Price
7.0 OCM (360m) (Oceansat-2)			
7.1	Georeferenced 1420 km X 1420 km	1.5	3,050
7.2	Geo physical 1420 kmX1420 km	1.5	1,070

n.b. Above estimate and price of satellite data may vary time to time.

Foreign satellites :

S. No	Satellite
1	LANDSAT
2	ERS-1/2
3	NOAA
4	TERRA and AQUA
4	SPOT
5	RADARSAT
6	IKONOS
7	QUICKBIRD
8	ENVISAT
9	World View 2 /3
10	Geo-Eye

Data for above satellites are to be procured through NRSC, ISRO as per GOI norms. In general prices are in “\$” per square Km. There is a limitation to indent minimum area of around 10-25 sq.Km area depending on policy of concerned commercial distributor (eg. Digital Globe) for these satellite data.

E. ASSETS MAPPING using Andriod based Mobile Application & Geotagging of Assets on BUVAN or Google Earth is **Rs. 50/- (Rupees fifty only) per asset**. The cost is inclusive of transportation cost on ground, development of mobile apps as per users requirement, attribute entry against assets (subject to maximum of **5 nos. of field entry**). **An amount of Rs.1/- (Rupees One only) will be charged extra** for each additional field entry beyond 5 nos. of field type.

F. UAV IMAGE SERVICE: PRODUCTS AND PRICING

i) IMAGE/PHOTOGRAMMETRY PRODUCTS

SL	PRODUCT	RATES	
		TOPOGRAPHIC (per sq km)	STRIP/PATH (per Km)
1	Mosaic Raw Data without Geo-coding (spatial)	`1500	`1000
2	Mosaic Data with Geocoding/Ortho-rectification	`2000	`1500
3	Ortho Rectified Image and DEM corrected with GCPs (Ground Control Points) using DGPS (Differential GPS) with accuracy 20-50 cm	`3000	`2500

ii) POST-PROCESSING AND THEMATIC LAYER GENERATION

SL	PRODUCT	PRICE
1	Digital Image Processing, Analysis, Thematic Layer generation and other Customization jobs. <u>Thematic Layers</u> <ul style="list-style-type: none"> • Slope • Contour (0.30 to 10 meter) • Parcels • Roads/Railways • Water bodies/Rivers/Canal • Vegetation • Agriculture • Forestry • Landuse /Landcover • Features/Area of interest • 3D reconstruction of feature/Area of interest etc. 	`250/Man-Hour

iii) OTHER CHARGES

SL	ITEM	RATE
1	UAV Operational Charges	`7,500 Per Day
2	Vehicle Charges (For Both UAV and DGPS Survey)	`2500 Per Day Per Vehicle
4	DGPS Survey Charges	`1500 Per Point

N.B:

1. Image resolution:
 - a. Ortho-Photo Mosaic : 10-30 cm
 - b. DEM (Digital Elevation Model)/Contour : 20-50 cm
2. Minimum order size should be at least 1 sq. km.
3. Standard Number of DGPS readings per square Km will be 9 Points (GCP)
4. Transportation and other logistics expenditure (Food & Lodging) will be borne by the client. If the same is to be arranged by ARSAC, the following rates will be applied:

SL	CATEGORY	RATE (PER DAY/PERSON)	TEAM CHARGES PER DAY	
			1 UAV Team (3 Staffs)	1 DGPS Team (3 Staffs)
1	'X' (Metro-Cities & State Capitals outside Assam)	`1800	`5400	`5400
2	'Y' (All other places outside the state)	`1500	`4500	`4500
3	'Z' (All places within the state)	`1200	`3600	`3600

5. Deployment of respective teams to field locations from Hq Airfare/Vehicle fare to be borne by Client.
6. 8% Institutional Charges (i.e. Administrative overhead etc.) Applicable.
7. All charges are exclusive of printing cost.

N.B: The Unit Price quoted as above is valid for one year and to be revised periodically. If product prices are not revised the same will be valid.