

**Report on Prioritisation of 2A1A, 2A1B and 2A1C subcatchments in Lower Ganga Basin (F P R), District- 24 Parganas (North and South), Kolkata and Nadia, West Bengal.**

**Abstract**

- 1. Survey Area :** *2A1A, 2A1B, and 2A1C Sub Catchment in Lower Ganga Basin, District-Kolkata, 24 Parganas North & South and Nadia of West Bengal.*
- 2. Total Area Surveyed and mapped :** *15,02,224 ha.*
- 3. Location :** *88° 03' to 89° 06' East Longitude  
21° 32' to 23° 18' North Latitude*
- 4. Agroclimate Zone :** *Lower Gangetic Plain Region, Zone III as per Planning Commission's classification.*
- 5. Kind of Survey :** *Rapid Reconnaissance Survey.*
- 6. Period of Survey :** *May & June, 2001.*
- 7. Base Materials Used :** *Survey of India Topographic map on 1:50,000, scale and IRS 1B, LISS II, Geocoded False Colour Composite of April 1995 & November 1990.*

**8. Extent of different Runoff Potential Mapping Units:**

Sl.No.	EIMU	Runoff Potential Value	Area ( ha.)	(%)
1	AL01	61	15119	1.01
2	AL02	56	22047	1.47
3	AL03	57	76565	5.10
4	AL04	58	68420	4.55
5	AL05	54	203510	13.55
6	AL06	57	120608	8.03
7	AL07	57	138308	9.21
8	AL08	55	37656	2.51
9	AL09	54	108767	7.24

### 11. Priority Categorization :

Sl. No.	Priority Category	No. of Microwatersheds	Area (ha)	%
1	Very high ( 62 & above)			
2	High (58-62)	45	62976	4.19
3	Medium (57-53)	948	1419963	94.52
4	Low (52-48)	-	-	-
5	Very Low (below 48)	16	19285	1.28
	<b>Grand Total</b>	<b>1009</b>	<b>1502224</b>	<b>100</b>

### 12. Salient Features:

- 2A1A, B, C subcatchment has been subdivided into 1009 microwatersheds following the delineation and codification method outlined in Watershed Atlas of India (1:1 Mile scale).
- Out of 1502224 hectares surveyed area, 62976 ha. (4.19 %) covered by 45 microwatersheds have been categorized under High priority area and 1419963 ha. (94.52%) covered by 948 microwatersheds have been categorized under medium priority area. No area comes under very high Priority.
- Of the whole surveyed area, 80221 ha (5.34%) is under multi crop cultivation and 637186 ha (42.41%) under single crop cultivation (Rainfed).
- About 576148ha (38.35%) area are susceptible to slight to moderate water erosion that needs appropriate soil-water conservation practices.
- Culturable waste / barren land occupies 55244ha(36.77%) that requires proper agronomic practices for land development.
- Soils are very deep and mostly fine loamy to fine textured alluvial soil which has tremendous potentiality for cultivation of wide variety of crops under assured Irrigation water.
- About 11023ha (0.73%) mostly confined in lower deltas of 24Parganas (South) are under mangrove forest ( 10-40% canopy) and needs afforestation/ reforestation for ecological balance.