

**REPORT ON DEMARCATION OF PRIORITY SUB-WATERSHEDS IN 2B1A (PART),
2B1E, 2B1F SUB-CATCHMENTS OF GHAGHARA FLOOD PRONE RIVER
CATCHMENT SPREAD OVER PARTS OF AZAMGARH, BALIA, BARABANKI,
BAHRAICH, FAIZABAD, GONDA, GORAKHPUR AND SITAPUR DISTRICTS OF
UTTAR PRADESH**

ABSTRACT

- **Survey Area** : 2B1A (Part), 2B1E, 2B1F subcatchments of Ghaghara Flood Prone River catchment, Azamgarh, Balia, Barabanki, Bahraich, Faizabad, Gonda, Gorakhpur and Sitapur districts, Uttar Pradesh
- **Location** : 24° 40' to 28° 02' North Latitudes and 81° 18' to 84° 42' East Longitudes
- **Total Area** : 16, 51, 575 ha
- **Period of Survey** : November, 1993 to June, 1996
- **Type of Survey** : Rapid Reconnaissance Survey for Priority Delineation
- **Base Material** : Survey of India Toposheets in the Scale of 1:50,000
- **Run off Potential Mapping Units and their Extent**

Sl. No.	Mapping units	Area in ha	Percentage
1.	A1	15,900	0.96
2.	A2	42,275	2.56
3.	A3	29,350	1.78
4.	A4	3,975	0.24
5.	A5	1,050	0.06
6.	A6	47,250	2.86
7.	A7	88,050	5.33
8.	A8	52,100	3.15
9.	A9	95,475	5.78

Sl. No.	Mapping units	Area in ha	Percentage
10.	A10	4,66,125	28.22
11.	A11	38,950	2.36
12.	A12	10,465	0.63
13.	A13	2,925	0.18
14.	A14	12,750	0.77
15.	A15	13,713	0.83
16.	A16	150	0.01
17.	A17	54,125	3.28
18.	A18	27,750	1.68
19.	A19	1,75,620	10.63
20.	A20	1,03,625	6.27
21.	A21	1,76,400	10.68
22.	A22	2,550	0.15
23.	A23	12,500	0.76
24.	A24	57,925	3.51
25.	A25	8,650	0.52
26.	A26	725	0.04
27.	A27	18,425	1.12
28.	A28	9,852	0.60
29.	A29	2,650	0.16
30.	<i>Habitation</i>	<i>18,550</i>	<i>1.12</i>
31.	<i>River</i>	<i>61,725</i>	<i>3.74</i>
	Total area	16,51,575	100.00

➤ **Hydrological Division of the Survey Area**

⇒	Water resource region: Ganga	2
⇒	Basin	2B
⇒	Catchment	2B1
⇒	Subcatchment	2B1A, 2B1E, 2B1F
⇒	Watersheds	18
⇒	Sub-watersheds	336

➤ **Watershed-wise Area of Ghaghara Catchment**

Sl. No.	Watershed Codes	Area in ha	No. of Sub-watersheds	Percentage
1.	2B1A2	83,500	16	5.05
2.	2B1A5	33,775	6	2.04
3.	2B1E1	98,475	21	5.96
4.	2B1E2	1,34,175	30	8.13
5.	2B1E3	1,90,100	39	11.51
6.	2B1E4	44,525	10	2.70
7.	2B1E5	10,7000	22	6.48
8.	2B1E6	27,475	8	1.66
9.	2B1E7	1,22,450	22	7.41
10.	2B1F1	50,825	11	3.08
11.	2B1F2	50825	33	9.48
12.	2B1F3	77,175	14	4.67
13.	2B1F4	70,000	18	4.24
14.	2B1F5	10,14,00	20	6.14
15.	2B1F6	49,875	9	3.02
16.	2B1F7	84,750	14	5.13
17.	2B1F8	82,750	18	5.01
18.	2B1F9	1,36,800	25	8.29
	Total	16,51,575	336	100.00

➤ **Distribution of Area under Different Priorities**

Sl. No.	Priority category	Average potential run off index range	Number . of sub-watersheds	Area in ha	Percentage
1.	Very high	65 and above	-	-	-
2.	High	60-64	-	-	-
3.	Medium	55-59	16	69125	4.19
4.	Low	50-54	286	1421400	86.06
5.	Very low	< 50	34	161050	9.75
	Total		336	16,51,575	100.00

➤ **Salient Features**

- ⇒ Of the total area of 1651575 ha of Ghaghara catchment no area falls under very high and high priority
- ⇒ Agriculture is the dominant land use with intensively cultivated area of 1456150 ha (88.16%) while grass land is about 64687 ha (3.92%) and about 26463 (1.60%) is under forest land and about 2925 ha (0.18%) is under orchard.
- ⇒ Nearly 69125 ha (4.19%) area falls under medium priority category
- ⇒ Majority of area covering 1421400 ha (86.06) falls under low priority category and 161050 (9.75%) area comes under very low priority category.

85
41
30.2
81.2
10.2
95.8
99.99