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CODING OF WATERSHED

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CODING OF WATERSHED

Coding of watershed is done to fix a kind of identity based on some specific features. It is carried out by several ways, viz. in digit combination of letters and digits or by using the name of stream associated with the watershed.

The coding of watershed in the river valley project is normally done in the combination of letters and digits. The coding is carried out by using the following steps.

1. Find Out the name of main river/stream draining the watershed. Let it is 'Ram Ganga'
2. Take the first letter of the name of main stream, which is 'R' for the Ram Ganga.
3. Determine the name of sub-catchment. Let it is Naurar sub-catchment of Ram Ganga
4. Take the first letter of the name of sub-catchment, as the second letter for coding of the watershed which is obtained as 'N'



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5. Combine both the letter, i.e. RN
6. Use the digits for watersheds delineated within the sub-catchment
e.g. RN ,RN2, RN3 etc
7. Lastly, code the sub-watershed by adding another digit after a hyphen, i.e. RN 1-1. RN 2-2



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The coding should be started from the downstream end and proceed to upstream end. For this purpose the Tributaries serially from downstream to up stream are taken into consideration, in respect of the joining sides, i.e. left or right hand side of the main stream.

The word for 'L' for left hand side and 'R' for right hand side joining tributaries to the main stream, is also added in the code of watershed. The encoding method adopted by All India Soil & Land Use Survey is also given in Table.



Table 4.1 Coding of watershed

Hydrologic Unit	Size(Lakh-ha)	Nomenclature	Basin Map scale
Macro delineation	> 300	Arabic numbers (1 – 6)	1:10 M
Basins	30 - 300	Alphabets (A- H)	1:4 or 1:6 M
Catchments	10 - 50	Arabic numbers (1-9)	1:1 M
Sub-catchments	2 - 10	Alphabets (A open)	1 :1 M
Watersheds	0.5 to 2	Arabic numbers (1-9)	1 : 250000
Micro delneation			
Sub-watersheds	0.1-0.5	Alphabets	1:50000
Milli-watersheds	0.01-0.1	Alphabets	1:15000
Micro-watersheds	0.001-01	Alphabets	1:10,000
Mini-watersheds	0.000001-0.01	Arabic numbers	1:4000



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EX- 1A2B3a1

1A2B3a1 stands for a national code of a micro-watershed belongs to

Water Resource Region “1”,

Basin “1A”

Catchment “1A2”,

Subcatchment “1A2B”,

Watershed “1A2B3”,

Subwatershed “1A2B3a” and

Microwatershed “1A2B3a1”