

## **GROUND WATER RESOURCES**

The natural recharge of ground water takes place through percolation from land after rain events. The quantum of dynamic ground water, which can be annually extracted, is generally reckoned as ground water potential. The ground water resources assessment are being carried out at an interval of five years following on the norms

and methodology prescribed by the Ground Water Estimation Committee (GEC) of Government of India.

As per the latest assessment, the state has net dynamic ground water resources of 16.69 lakh ha.m (BCM). Out of which, exploration to the extent of 5.2 lakh ha.m (BCM) has been made for various uses. Basin wise ground water resources & its utilisation is given in the table no.1.

**Table - 1**  
**Ground Water Resources and Sectoral utilisation**

Sl. No.	Basin	GW Resources (HM)	Sectoral GW Draft in Basin as of March 2013				Stage of GW Development (%)
			Irrigation (HM)	Domestic (HM)	Industrial (HM)	Total Draft (HM)	
A.	River Basin						
1	Bahuda	11023	3090	571	-	3661	33.21
2	Baitarani	167215	59275	5675	2147	67097	40.13
3	Brahmani	198033	52686	9061	2483	64230	32.43
4	Budhabalanga	83957	27302	3263	1412	31977	38.09
5	Indravati	55912	6153	3136	20	9309	16.65
6	Jambhira	38634	16705	1378	-	18083	46.81
7	Kolab	75343	6673	2585	-	9258	12.29
8	Mahanadi	685477	152628	37254	2262	192144	28.03
9	Nagavali	26167	3109	1336	49	4494	17.17
10	Rushikulya	117910	28068	6275	484	34827	29.54
11	Subernarekha	59855	19303	2123	-	21426	35.80
12	Vansadhara	72402	13102	2225	8	15335	21.18
B	Area draining directly to sea						
13	Chilika	27372	4460	1254	37	5751	21.01
14	Kansabansa	49614	22034	1565	711	24310	49.00
State Total		16,68,914	4,14,588	77,701	9,613	5,01,902	30.07

G.W.- Ground Water, HM- Hectare Metre

**Table - 2**

Unit - BCM

State	Annual Replenishable Ground Water Resource					Natural discharge during Non-monsoon season	Net annual ground water availability	Projected demand for domesitc & industrial uses upto 2025	Ground water availability for future irrigation use
	Moonsoon Season		Non-Monsoon season		Total				
	Recharge from rain fall	Recharge from other source	Recharge from rain fall	Recharge from other source					
Odisha	11.29	2.53	1.33	2.63	17.78	1.09	16.69	1.27	11.94