

RIVER BASIN

NAGVALI

[INDIA]

SCHEDULE A
ASSESSMENT OF RIVER BASINS ORGANISATIONS (RBOs) IN SOUTH ASIA

Sr. No.	Details	Response
1	Physical Features - General Information	
1.1	Name of River basin (also indicate regional names)	Nagavalli (north latitude 18° 10' to 19° 44' and east longitudes of 82° 53' and 84° 05') (Source-Integrated Hydrological data 2006)
1.2	Relief Map and Index Map of RB with Country/ State/ Province boundary marked to be attached.	Refer Annexure 1
1.3	Geographical location of the place of origin (Country/District)	It originates from Bijipur hills of Eastern Ghat near Lanjigarh. (source- http://www.orissaa.com/orissa_rivers.html#Nagabali)
1.4	Area (in Sq. Kms.),	9,275 Sq km
1.5	Population (in Millions); Name of population centers/ Cites (duely marked on the map: refer 1.2) having Population -	Population (2001): 5,78,143
	(a) More than 0.5 Million - 1 Million	
	(b) More than 1 Million – 10 Million	D N A
	(c) More than 10 Million	D N A
1.6	Approximate areas of upper regime, middle regime and lower regime;	

1.7	Country and States (Province) in which the basin lies (indicate % area covered);	It drains parts of the districts of Kalahandi, Rayagada, Koraput of Orissa Orissa 4462sqkm and Srikakulam, Vijayanagaram and Visakhapatanam of Andhra Pradesh state-5048sqkm(Integrated Hydrological data2005)
2	Hydrological and Land use Features:	
2.1	Average annual rainfall (in mm);	Max:1973 mm, Min:1077 mm (Source- http://www.orissawater.com/BasinMaps/IndexofBasins.htm)
2.2	Maximum-minimum temperatures in Degree Centigrade	25 to 38oC (Source-Hydrological data 2005)
2.3	Average annual yield (discharge) of water in Cubic Meter and the average yield for last past five years	2853mcm (source- http://www.ospcboard.org/CHAPTER-I-XI/CHAPTER-V-WATER%20RESOURCES.pdf)
2.4	Major tributaries	Jhanjabati, Sananadi, Barha Nadi, Situguda N.(Source- http://www.orissawater.com/BasinMaps/IndexofBasins.htm)
2.5	Percentage shares of major water uses & Surface and groundwater abstraction in percentages-Convert into Table	Surface water-70000mcm, Ground water- 21000mcm(Source- http://www.ospcboard.org/CHAPTER-I-XI/CHAPTER-V-WATER%20RESOURCES.pdf)
	(a.) Agriculture,	
	(b.) Industries,	9.15 mcm(Source- http://www.ospcboard.org/CHAPTER-I-XI/CHAPTER-V-WATER%20RESOURCES.pdf)
	(c). Domestic,	70 litres (http://72.14.235.104/search?q=cache:nDTQ5Uj6dz4J:nwda.gov.in/writereaddata/sublink2images/107.pdf+nagavalli+river+basin+orissa&hl=en&ct=clnk&cd=12&gl=in)
	(d). urban,	200 litres (Source-ibid)

	e). environmental flows.	21000mcm (Source- http://www.ospcboard.org/CHAPTER-I-XI/CHAPTER-V-WATER%20RESOURCES.pdf)
2.7	Cultivable area under irrigation	
2.8	Cultivable area not under irrigation	
2.9	State other Water Uses- eg. Navigation, power, recreation etc.	
3	Ecosystem Features	
3.1	Agro-climatic zones	North Eastern Ghat, Eastern Ghat High Land(Source- http://www.orissa.gov.in/agricensus/ag4.htm)
3.2	Major sub ecosystems (zoogeographical zones)	Central table land and Eastern Ghat region. (Source-, http://www.orissa.gov.in/agricensus/ag4.htm)
3.3	Major soil types	Brown & forest soils, sandy loam, loamy & clay, medium textured (Source-lbid)
3.4	National parks/sanctuaries, lakes, wetlands, etc.	
3.5	Brief information about the delta region of the basin (area, location, major urban centers in the delta, etc.)	Kallepalli is a village located around 5 kilometers from Srikakulam town in Andhra Pradesh, India. River Nagavali meets the Bay of Bengal near the village Kallepalli. (source- http://en.wikipedia.org/wiki/Kallepalli)
4	Water Quality	
4.1	Prevailing water quality standards (e.g. Class I, II, III.etc, indicating permitted uses)	http://www.cpcb.nic.in/pamsweb/pollrivstre.htm)
4.2	Stretches (along the River) in Kms. with water quality classes indicated (may be	

	marked on the map)	
4.3	Sources of Pollution, with data indicating quantum and/or severity.	
4.4	Prevailing abatement techniques e.g: ETP, STP, legislation,etc.	
5	Current status of the resource development & potential for development	
5.1	Water availability:	
	a. Per capita water availability (in lpcd)	
	b. Per hectare water availability (in Cubic meters for cultivable command area):	4227.89mcm(source- http://www.ospcboard.org/CHAPTER-I-XI/CHAPTER-V-WATER%20RESOURCES.pdf)
	c. Availability of environmental flows (Current reserve, if any):	21000mcm (Source- http://www.ospcboard.org/CHAPTER-I-XI/CHAPTER-V-WATER%20RESOURCES.pdf)
	d. Availability of ground water/ Average annual ground water abstraction/recharge.	Surface water-70000mcm, Ground water- 21000mcm(Source- http://www.ospcboard.org/CHAPTER-I-XI/CHAPTER-V-WATER%20RESOURCES.pdf)
5.2	Structures:	Srikakulam, Jhanjavati Project ,Vegavathi Anicut:,Seethanagaram Anicut
	a. Major dams/barrages (with utilization categories):	
	b. Proposed dams:	
	c. Live storage of major dams:	Jhanjavati Project -4tmc (source- http://en.wikipedia.org/wiki/River_Nagavali) Vegavathi Anicut- 0.653tmc. Seethanagaram Anicut- 0.638tmc Pedankalam Anicut -

		1.073 tmc,Vottigedda Reservoir - 2.587tmc (source- http://irrigation.cgg.gov.in/dp/VizayanagaramDistrictProfile.jsp)
	d. Live storage through proposed dams:	
	e. Inter basin transfer systems:	
	f. Any Other:	
5.3	Command area of major dams	
5.4	Agencies functioning in the basins: a. Public agencies/ CSOs which construct/ implement the infrastructures projects: b. Private agencies/ CSOs involved in infrastructure development	
6	Existence of National/State/Provincial Laws or Notifications relating to water-Management / use/development/opportunity for private sector participation or for privatization of water resources	Government of Orissa first prepared its State Water Policy in1994 and based on the revised National Water Policy 2002, prepared a new revised State Water Policy 2004 and expected to be released soon
7	Key Issues	
8	Enabling instruments- Law/ Policy/ Economic & Financial Measures for introducing IWRM in the basin	The concept of Participatory Irrigation Management (PIM), which is termed as Pani Panchayat was introduced in Orissa as Pani Panchayat Act 2002 and Pani Panchayat Rule 2003. Initially, it is programmed to form 698 Pani

		Panchayats in 33 projects covering an area of 3.32 lakh Ha.(source- http://www.ospcboard.org/CHAPTER-I-XI/CHAPTER-V-WATER %20RESOURCES.pdf)
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SCHEDULE B
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SCHEDULE C
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