

RIVER BASIN

MANJARA

[INDIA]

SCHEDULE A
ASSESSMENT OF RIVER BASINS (RBs) IN SOUTH ASIA

Sr. No.	Details	Response
1	Physical Features - General Information	
1.1	Name of River basin (also indicate regional name)	Manjra.(Tributary of Godavari.)450 miles (Source- Maharashtra Jal Ani Sinchan Ayog Ahaval 1999)
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.)	Oiginates at 700 feet .Gaurwadi,Taluka -Patoda, of Beed -District of Maharashtra (Source- Maharashtra Jal Ani Sinchan Ayog Ahaval 1999).
1.4	Area (in Sq. Kms.),	16439sqkm.(Source-ibid).
1.5	Population (in Millions); Name of population centers/ Cites (duely marked on the map: refer 1.2) having Population -	Ahmednager, Beed, Latur, Osmanabad, Nanded.(Source-ibid)
	(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;	Originating from the hilly areas of Beed district it flows towards Osmanabad and Latur in Maharashtra it flows into the State of Karnataka and then to the State of Andhra

		Pradesh. It finally comes back and meets Godavari at the Nanded District of Maharashtra.(Source- Maharashtra Jal Ani Sinchan Ayog Ahaval 1999).
1.7	Country and States (Province) in which the basin lies (indicate % area covered);	14821sqkm in Maharashtra (Source- Maharashtra Jal Ani Sinchan Ayog Ahaval 1999) Manjra River in Bidar district of Karnataka State, Nizamabad district of Andhra Pradesh and Nanded, Latur, Osmanabad, Beed districts of Maharashtra (Source- http://www.answers.com/topic/list-of-rivers-in-india).
2	Hydrological and Land use Features	
2.1	Average annual rainfall (in mm);	800mm.(Source- Maharashtra Jal Ani Sinchan Ayog Ahaval 1999).
2.2	Maximum-minimum temperatures in Degree Centigrade	Maximum 38.8 degrees, Celsius. 3.9 °C (Source- http://c10-ss-1-lb.cnet.com/reference/Bidar_District).
2.3	Average annual yield (discharge) of water in Cubic Meter and the average yield for last past five years	Not available.
2.4	Tributaries	Tirina,Karanja,Haldi,Lendi &Mannar. (Source-Pradesh. http://waterresources.kar.nic.in/projects.htm)
	Percentage shares of major water uses & Surface and groundwater abstraction in percentages-Convert intoTable	surface water 1756mcm and ground water-1117mcm. Agriculture1077mcm (Source- Maharashtra Jal Ani Sinchan Ayog Ahaval 1999).
	(a.) Agriculture,	
	(b.) Industries,	3mcm(Source- ibid).
	(c). Domestic,	108mcm(Source-ibid).
	(d). urban,	21mcm(Source- ibid).
	e). environmental flows.	not available

2.6	Major cropping pattern	Greengram, bengalgram, blackgram, paddy, groundnut, wheat, redgram, sugarcane and chillies are other agricultural crops and Jowar remains the major crop. (Source- http://c10-ss-1-lb.cnet.com/reference/Bidar_District).
2.7	Cultivable area under irrigation	1337sqkm. (Source- Maharashtra Jal Ani Sinchan Ayog Ahaval April 1999)
2.8	Cultivable area not under irrigation	420thousand hectares.(Source-ibid).
2.9	State other Water Uses- eg. Navigation, power, recreation etc.	not available.
3	Ecosystem Features	
3.1	Agro-climatic zones	Central Maharashtra Plateau Zone /Assured Rainfall Zone(Source- http://agri.mah.nic.in/agri/stat/htmlarea/cli_table.htm#arz)
3.2	Major sub ecosystems (zoogeographical zones)	24% area is hilly and subdivided , 65% area is plateau and 11% area is flat and aluvial.(Source- Maharashtra Jal Ani Sinchan Ayog Ahaval 1999).
3.3	Types of Soil	Coarse andshallow soil, moderate black soil, deep black soil, alluvial soil,red mixed soil.(Source- ibid).
3.4	National parks/sanctuaries, lakes, wetlands, etc.	not avialable.
3.5	Brief information	Meets Godavari at the Nanded District of Maharashtra.(Source- Maharashtra Jal Ani Sinchan Ayog Ahaval 1999).
4	Water Quality	
4.1	Prevailing water quality standards (e.g. Class I, II, III.etc, indicating permitted uses)	Class-II. (source- http://envis.maharashtra.gov.in/notifieddrivers/godavari.php)
4.2	Stretches (along the River) in Kms. with water quality classes indicated (may be marked on the map)	Origin to Confluence with Godavari River.(source- http://envis.maharashtra.gov.in/notifieddrivers/godavari.php)

4.3	Sources of Pollution, with data indicating quantum and/or severity.	see attachment.
4.4	Prevailing abatement techniques e.g: ETP, STP, legislation,etc.	not available.
5	Current status of the resource development & potential for development	
5.1	Water availability:	1252 lpcd (Source- Maharashtra Jal Ani Sinchan Ayog Ahaval 1999).
	a. Per capita water availability (in lpcd)	
	b. Per hectare water availability (in Cubic meters for cultivable command area):	2820 per hectar (Source- Maharashtra Jal Ani Sinchan Ayog Ahaval 1999).
	c. Availability of environmental flows (Current reserve, if any):	Not avialable.
	d. Availability of ground water/ Average annual ground water abstraction/recharge.	2490mcm (Source- Maharashtra Jal Ani Sinchan Ayog Ahaval 1999).
5.2	Structures:	2 major and 18medium irrigation dams(Source- Maharashtra Jal Ani Sinchan Ayog Ahaval 1999).
	a. Major dams/barrages (with utilization categories):	
	b. Proposed dams:	none in Maharashtra.(Source- Maharashtra Jal Ani Sinchan Ayog Ahaval 1999).
	c. Live storage of major dams:	313mcm (Source- Maharashtra Jal Ani Sinchan Ayog Ahaval 1999).
	d. Live storage through proposed dams:	None in Maharashtra (Source- Maharashtra Jal Ani Sinchan Ayog Ahaval 1999).
	e. Inter basin transfer systems:	D N A
	f. Any Other:	D N A
5.3	Command area of major dams	138069 hectars. (Source- Maharashtra Jal Ani Sinchan Ayog Ahaval 1999).

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	Irrigation departments of Maharashtra, Karnataka and Andhra Pradesh. Municipal Corporation of the respective cities. Public Works Departments of the respective States.s
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	Godavari Tribunal Award, Maharashtra Water Resource Regulatory Authority.
7	Key Issues:	D N A
8	Enabling instruments- Law/ Policy/ Economic & Financial Measures for introducing IWRM in the basin	Godavari Tribunal Award, Maharashtra Water Resource Regulatory Authority.

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

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