



CENTRAL WATER COMMISSION (CWC)
ENVIRONMENTAL IMPACT ASSESSMENT DIRECTORATE



REPORT ON
ENVIRONMENTAL EVALUATION STUDY OF
RAMGANGA MAJOR IRRIGATION PROJECT

Volume—II
ANNEXURES

FEBRUARY 2012

Consultant

AGRICULTURAL FINANCE CORPORATION LTD
HYDERABAD



INDIA UTTAR PRADESH STUDY FOR ENVIRONMENTAL EVALUATION OF RAMGANGA RIVER VALLEY PROJECT		
CONTENTS		
Annexure	Title	Page(s)
I.1	Terms of Reference for Environmental Evaluation Study of Ramganga RVP	1-6
I.2	Name of the district covered under Ramganga Project	7-8
II.1	Salient Features of Ramganga Multipurpose Irrigation Project	9-16
II.2	Month-wise Maximum and Minimum Temperature form 1996 to 2000	17-18
II.3	Monthly Rainfall Data from 1996 to 2000 (mm)	19-20
IV.1	District-wise Educational Institutions	21-22
IV.2	District-wise Number of Teacher, Student and Teacher Ration (Post Project)	23
IV.3	District-wise Literacy Pre and Post Project	24
IV.4	District-wise Demographic Pre and Post Project	25
IV.5	District-wise Occupational Categories of Workers (Pre project)	26
IV.5	District-wise Occupational Categories of Workers (Post project)	27
IV.6	District-wise Employment in Registered Factories (Pre & Post Project)	28
IV.7	District-wise Scheduled Commercial Banks (Pre & Post Project)	29
IV.8	District-wise Co-operatives (Pre & Post Project)	30
IV.9	District-wise Other Co-operative Societies	31
IV.10	District-wise Cinema Houses and Tourism (Pre & Post Project)	32
IV.11	District-wise Health Institutions (Pre & Post Project)	33
IV.12	District-wise Family Welfare Programmes in the Study Area (post project)	34
IV.13	District-wise Infant & Child Mortality Rate (Pre & Post Project)	35-36
V.1	Land Use Pattern in Command Area on Time-Series Basis	37
V.2	Comparison of Land Pattern and Cropping Intensity in Command and Non-command Area Blocks of the Project	38-42
V.3	Cropping Intensity During Fast Growth Period	43
V.4	Cropping Intensity During Slow Growth Period	44
V.5	Trend of Cropping Intensity-Climatic Conditions During 2002-03	45
V.6	District-wise Area under Various Crops during Pre and Post-Project	46
V.7	District-wise Production Levels of Major Crops Post Project	47
V.8	District-wise Productivity of Major Crops under Post-Project	48
V.9	Area Production and Productivity of Major Crops in Command Area Blocks	49
V.10	District-wise Animal Census	50
V.11	District-wise Cross Breed Cattle (Female)	51
V.12	Comparison of Cross Breed Cattle to Total Cattle Population	52
V.13	Targets and Achievements under Service Area Credit Plan for Agriculture Sector	53
V.14	Progress of Cooperative	54

INDIA UTTAR PRADESH STUDY FOR ENVIRONMENTAL EVALUATION OF RAMGANGA RIVER VALLEY PROJECT		
CONTENTS		
Annexure	Title	Page(s)
V.15	Institution-wise Share of Agricultural Credit Programmes for Year 2008-09	55
V.16	Comparison of District-wise Number of Factories and Labour Employment	56
V.17	Dist-wise Road, Transport, Marketing and Communication Pre Project	57
V.18	Dist-wise Road, Transport, Marketing and Communication Post Project	58
V.19	Dist-wise Number of Electrified Villages	59
V.20	Fertilizer Consumption per hectare (in kg)	60
V.21	Fertilizer Consumption in the Districts of Ramganga Command Area Project	61-62
VI.1	Dist-wise Groundwater Resources Potential of UP	63-64
VI.2	Ramganga Command Area Statistics (in hectares)	65
VI.3	Annual Rainfall Table Recorded in Ramganga Command for the Year 2001 – in mm	66-74
VI.4	Block-wise Water Level Data in Ramganga Command Area Year 2000-04 and 2005-09	75-118
VI.5	Dist-wise Frequency Analysis of Hydrograph Stations According to Depth to Water Level During Pre and Post Monsoon Season (2000-2009)	119-124
VI.6	Dist-wise Trend in Different Sources of Irrigation in Ramganga Command Districts (1992-93 to 1994-95, 2002-03 to 2004-05 and 2005-06 to 2007-08)	125-128
VI.7	Dist-wise Number of Irrigation Structures in Ramganga Command Area Districts (1994-95)	129-130
VI.8	Dist-wise Number of Irrigation Structures in Ramganga Command Area Districts (2004-05)	131-132
VI.9	Dist-wise Number of Irrigation Structures in Ramganga Command Area Districts (2007-08)	133-134
VI.10	Dist-wise and Total Area (ha) Irrigated by Different Sources in Ramganga Command Districts (1992-93 to 1993-94, 2002-03 to 2004-05 and 2005-06 to 2006-07)	135-137
VI.11	Block-wise Feasibility in Ramganga Command Area for the Year 1995 & 2004	138-140
VI.12	Block-wise Drinking Water Quality	141-148
VI.13	Conjunctive Plan for Ramganga Command Area Year 2007-2008	149-164
IX.1	List of Trees and Shrubs encountered in the Catchment Area of Ramganga	165-174
IX.2	List of perennial climbers / twiners / stragglers found in the command area	175-176
IX.3	List of Bamboos an perennial grasses found in the catchment area	177-178

INDIA UTTAR PRADESH STUDY FOR ENVIRONMENTAL EVALUATION OF RAMGANGA RIVER VALLEY PROJECT		
CONTENTS		
Annexure	Title	Page(s)
IX.4	List of Trees and Shrubs and tall grasses encountered in the command Area of Ramganga Project	179-182
IX.5	List of Non woody annual and perennial species recorded during different season in the catchment and command areas of Ramganga Project	183-198
IX.6	List of herbal products used in Ayurvedic and Unani Medicines and their plant sources. Most of these medicinal plants, tubers and herbs are collected from the catchment and command areas of the Ramganga Project but not commercialized.	199-204
IX.7	Checklist of mammals recorded / reported from the catchment area of Ramganga	205-206
IX.8	Checklist of birds reported from the Jim Corbet National Park. The IUCN status of the birds which are under least concern category (LC) and data deficient (DD) are indicated by LC/DD and non breeding population is indicated by NB.	207-222
IX.9	List of Amphibians and Reptiles either observed or reported from the catchment and command areas of Ramganga Project	223-224
IX.10	Butterflies, Moths and Honey bees reported from the catchment and command areas of Ramganga project.	225-228
IX.11	List of aquatic / semi aquatic macrophytes found along the borders of the Reservoirs, Rivers and Ponds in the catchment and command areas.	229-230
IX.12	Fish Frequency and Diversisty of the Ramganga River	231-232
IX.13	Composition and Frequency of Zooplankton and Zoobenthos of the Ramganga River	233-234
XII.1	Unit Cost Details for Plantations in RDF Areas	235-240
XII.2	Estimation of Cost per hectare per Green Belt Plantation (500 plants)	241-242
XIII.1	Monthly Cases and Deaths due to Communicable Diseases	243
XIII.2	District Wise Incidence of Water Born Diseases in Ramganga Command Districts (2009)	244-245
XIII.3	District Wise Incidence of Water Born Diseases in Ramganga Command Districts (2010)	246-247
XIII.4	Disease wise Number of Cases Reported by Sample Households	248

Annexure – I.1

TERMS OF REFERENCE FOR ENVIRONMENTAL EVALUATION STUDY OF RAMGANGA RIVER VALLEY PROJECT

The Terms of Reference (ToR) as indicated by the CWC for conduct of the present evaluation comprise studying the impact of the project on Resettlement and Rehabilitation, Socio-economic Environment, Agriculture, Irrigation and Drainage, Flora and Fauna, Land Use Pattern, Public Health, etc. The detailed Terms of Reference (TOR) for each of these components as given by the CWC are presented below:

Effects of Rehabilitation

The study would analyze the effects of construction of project on rehabilitation and resettlement of the affected villages. It shall include the status of allotments of land / plots to affected population including landless workers.

- a) Details of rehabilitation sites where rehabilitation has been carried out;
- b) Actual photographs of rehabilitation sites and houses and details thereof;
- c) Environment and sanitation status;
- d) Details of amenities and infrastructure facilities provided to the rehabilitated families;
- e) Progress of economic rehabilitation programmes;
- f) Details of the occupational training programmes conducted for project affected persons.
- g) Details about health status and health services provided in the project area;
- h) Response of the oustees to the process of rehabilitation and constraints
- i) Status and living standards of the oustees at new location and compare in to the pre project baseline.

Socio-economic impacts including changes in literacy, employment

- a) Details of status of schools / teaching staff, student turnover;
- b) Improvement in male - female literacy, evaluation of adult education programmes, provided if any;
- c) Response to education provisions and assessment of constraints;
- d) List of post project occupational options that have arisen in the region and also make a statement what occupations are attributable to project benefits;
- e) List all the new educational, cultural, recreational and commercial (markets, banks, etc.) institutions accessed that have come up in the post project situation and state how much of it is attributable to the project;
- f) Compare the incidence of some important diseases in post and pre project situations;
- g) Compare the health care infrastructure in the post and pre project situation;
- h) Compare the Human Development Index (to the extent that the data is available) in the post and pre project situations.



Effects on agriculture including

- a) Improvement in Production
- b) Changes in Cropping Pattern and improvement in cropping intensity due to the project on agricultural / horticulture / animal husbandry;
- c) Improvement in quality of livestock and poultry;
- d) Assess agriculture cooperative and agriculture finance programmes if initiated;
- e) Detail of the steps taken to prevent contamination of ground and surface water due to fertilizers, pesticides, run off, etc.
- f) Development of Industry in the command area;
- g) Overall development scenario in the command area.

Impact on Groundwater

- a) Impact on quality and quantity of groundwater
- b) Changes in Groundwater table in recharge zones

Impact on drainage including identification of water logged or saline areas while undertaking this task, the consultant would also use Remote Sensed Data and would present the data in GIS

- a) Increase in the water logged area and mapping of specific area;
- b) Arriving at an understanding of how the water logging has increased;
- c) Estimation of increase in the salinity effected soils and mapping of the same;
- d) Arriving at an understanding of how the salinity has increased;
- e) Compare the drainage characteristics of pre and post project situations.

Impacts on archaeological monuments, economically important minerals and places of worship

- a) List of the archeological monuments and places of worship that are restored as a part of EMP, record their status and enlist reasons;
- b) List new places of worship and monuments that have come up during the post project period;
- c) List the new recreational opportunities that have come up in post project situation;
- d) List the pre project and post project status of economically important minerals and the means and activities of harnessing the same.

Impacts on forest including types of forests, forest cover, introduced species, changes in forest based livelihoods and list of endemic and endangered species if any

- a) Assess changes in the forest cover, forest types;
- b) Assess changes in Importance Value Index (IVI), Shannon diversity Index, relative abundance and density of key species;
- c) Assess effectiveness of forestry programs, contribution to sustaining local



- population needs (in eco development perspective);
- d) Contribution to economic activities related to medicinal plants in sustaining livelihoods of local population, if any;
- e) Status of endemic and endangered species and evaluation of conservation programs, if any.

Impacts on fauna including birds and aquatic life

- a) List terrestrial, avi and aquatic fauna
- b) Assess changes in terrestrial fauna and their migratory patterns, if any
- c) Assess changes in avi fauna and their migratory patterns, if any
- d) Assess fish life and aquatic ecology - benthic changes in terms of both macro benthos - micro benthos, primary productivity of reservoir;
- e) Status of endemic and endangered species, and evaluation of conservation programmes, if any;
- f) Assess effectiveness of wildlife conservation programs, pisciculture development programmes, and other activities contributing to sustaining local population livelihoods.

Impact on public health, drinking water supply, communications and quality of life in general

- a) Study the occurrences of diseases such as, typhoid, diarrhoea, malaria, jaundice and other water borne & water related diseases in pre and post project implementation scenario;
- b) Ascertain impacts due to reservoir impoundment, water logging and spread of such diseases, if any;
- c) Improvements in water supply provisions in pre and post implementation scenario;
- d) Improvements in communication and transportation facilities in post implementation scenario;
- e) Contribution of development in terms of provisions of infrastructure, facilities, amenities, economic compensation packages, etc., in improving quality of life;
- f) Effective implementation of EMPs in maintaining and improving quality of life of local population.

Changes in land use pattern

- a) Using image processing carry out land use / land cover classification and map on GIS;
- b) Using overlays identify new development triggering land use changes;
- c) Conduct ascertaining ground truths and physical investigations for validating such results;
- d) Map changes in land use / land cover before and after implementation of the project.



Assessment and Evaluation of implementation of Environmental Management Plan (EMP) if any

- a) Assess and evaluate R & R, compensatory afforestation, green belt development, health systems, fish development, catchment area treatment, reservoir rim treatment, landscape restoration, muck disposal, ecological conservation, etc. in terms of
 - i) Schedule of activities, manpower requirements and performance indicators.
 - ii) Financial arrangements and returns - Cost Benefit Analysis (CBA) and Wherever Return on Investment (ROI) was identified;
 - iii) Institutional arrangements suggested
- b) Evaluate the outcomes of EMP, assess its conformance to anticipated outcomes, understand the departures if any;
- c) Develop a modified EMP involving compensatory afforestation, green belt development, health systems, fish development, catchment area treatment, reservoir rim treatment, landscape restoration, ecological conservation, etc.
- d) Suggest any modifications / revisions to performance indicators and institutional measures;
- e) Identify needs in revisions to financial arrangements.

Status of implementation of Catchment Area Treatment (CAT) Plan

- a) Study the catchment area treatment measures suggested;
- b) Progress of the bioengineering and civil works carried out so far;
- c) Identify areas where soil erosion and sediment yield arrest has been successful;
- d) Identify areas where soil erosion and sediment yield arrest has not been successful, and thus evaluate and revise measures implemented to assess their effectiveness in local conditions;
- e) Assess CAT plan implementation expenditure and cost over runs, in non-functioning treatment measures;

Suggestions for Improvement

The suggestions for improvement may cover salient modifications to R&R Compensatory Afforestation, Green belt Development, Health systems, Fish development, Catchment Area Treatment, Reservoir Rim Treatment, Landscape restoration, Ecological conservation etc. However, the Consultant may:

- a) Prioritize the modifications based on the criteria that achieve improved stakeholder satisfaction.
- b) Identify areas where implementation of EMP's require improvements in terms of manpower deployment, financial arrangements, actors involved, technology deployed, etc.
- c) Suggest revised performance or success criteria.



Recommendations for Improvements

The recommendations would cover each element of R&R, Compensatory Afforestation, Green belt development, Health systems, Fish development, Catchment Area Treatment, Reservoir Rim Treatment, Landscape Restoration, Ecological conservation etc., as in previous EIA, and state its present status against anticipated/desired outcome; potential causes for deviation; suggested modification; evaluation of suggested modification; costs and benefits; institutional requirements (roles/timelines/legislative); success criteria and success measures.

The evaluating agency would discuss the draft recommendations with CWC before discussing with stakeholders and experts. The opinions of and feedback from the stakeholders would be evaluated along with CWC before finalizing the recommendations of the evaluating agency. The recommendations of the evaluating agency may be considered for evaluation by the CWC and, if found pragmatic, may be taken up for implementation.



Annexure-I.2

**Name of the district covered under Ramganga Project in the Ramaganga Command
Area Development Programme, U.P.**

Sl. No.	Original District	Sl. No.	Restructure District	Remark
1	Aligarh (17)	1	Aligarh (12)	Five blocks of Aligarh have gone in Mahamayanagar district.
2	Mathura (12)	2	Mathura (10)	Two blocks of Mathura have gone in Mahamayanagar district
		3	Mahamayanagar (7)	Created in 19897-98
3	Agra (18)	4	Agra (15)	Three blocks of Agra have gone in Firozabad district.
4	Mainpuri (15)	5	Mainpuri (9)	Six blocks of Mainpuri district have gone in Firozabad district
		6	Firozabad (9)	Created in 1989-90
5	Etah (15)	7	Etah (8)	Seven block of Etah district have gone in Kanshiramnagar district.
		8	Kashiramnagar (7)	Created in 2008-09
6	Etawah (14)	9	Etawah (8)	Seven blocks of Etawah district have gone in Auraiya district
		10	Auraiya (7)	Created in 1997-98
7	Farrukhabad (14)	11	Farrukhabad (7)	Eight block of Farrukhabad have gone in Kannauj district
		12	Kannauj (8)	Created in 1997-98
8	Kanpur (20)	13	Kanpur Nagar (10)	-----
		14	Kanpur Dehat (10) (New name Ramabainagar)	Created in 1984-85
9	Fatehpur (13)	15	Fatehpur (13)	-----
10	Allahabad (28)	16	Allahabad (20)	Eight blocks of Allahabd, district have gone in Kausambhi district
		17	Kausambhi (8)	Created in 1997-98

Note: Figures within parentheses denote number of blocks



Annexure II.1

SALIENT FEATURES OF RAMGANGA MULTI PURPOSE IRRIGATION PROJECT

I	Location		
i)	Latitude	29 ⁰ 31' 13" North	
ii)	Longitude	78 ⁰ 45' 35" East	
II	Catchment Area		
	Name of the Sub catchment	sq.km	% to Total
i)	Upper Ramganga	696	22.21
ii)	Ganga River	505	16.11
iii)	Binao Nadi	305	9.73
iv)	Khatraun	118	3.77
v)	Nair	89	2.84
vi)	Badan Gad	216	6.89
vii)	Mandal Nadi	396	12.64
viii)	Hald Gad	296	9.44
ix)	Middlle Ramganaga	117	3.73
x)	Sona Nadi	145	4.63
xi)	Lower Ramganaga Right	114	3.64
xii)	Lower Ramganaga Left	137	4.37
		3134	100
III	Dams and Appurtenant Works		
III.1	Hydrology		Unit
(i)	Catchment Area above dam site	313400	ha
(ii)	Mean Annual Rainfall in the Catchment	1552	mm
(iii)	Mean Annual Runoff at Dam Site	2683	M cum
(iv)	Estimated Floods		
a)	Design Flood (Frequency 1 in 750 Years)	9374	cum/sec
b)	Maximum Probable Flood (Frequency 1 in 10000 Years)	12121	cum/sec
c)	Routed Design Flood (Reservoir Elevation of 366.86 m)	7607	cum/sec
d)	Routed Max. Probable flood in Reservoir El 367.60 m	10393	cum/sec
e)	Diversion Flood (Frequency 1 in 100 Years)	9705	cum/sec
f)	Diversion Flood (Frequency 1 in 100 Years without Maximization)	8213	cum/sec



SALIENT FEATURES OF RAMGANGA MULTI PURPOSE IRRIGATION PROJECT

III.2	Reservoir		
i)	Normal storage level	365.3	m
ii)	Max. Storage level top of gate	366.2	m
iii)	Drawdown level in average years	324.6	m
iv)	Dead storage level	317.0	m
v)	Reservoir Elevation at Design Flood	366.85	m
vi)	Reservoir Elevation at Max, probable Flood	367.88	m
vii)	Reservoir area at normal pool (335.3 m)	7831	ha
viii)	Storage at R.L. 365.3 m	2449.6	m cum
ix)	Dead Storage at R.L. 317.0 m	254.1	m cum
x)	Live Storage at R.L. 365.3 m	2195.5	m cum
xi)	Sediment storage in 100 years above 314 m	88.0	m cum
xii)	Net yield in 72% years	2313.0	m cum
III.3	Main Dam		
i)	Foundation rock	Alternate bands of sand rock and Clay Shales	
ii)	Type of dam	Earth and Boulder Fill	
iii)	Top elevation of dam	372.00	m
iv)	Top width of dam	12.00	m
v)	Bearing of Axis	N 89 ⁰ 58' - 45" W	
vi)	Crest Length	630.0	m
vii)	Length at River Bed Level	91.40	m
viii)	Max Height above deepest foundation Level	127.50	m
ix)	Upstream and Downstream Slope	2.5.1	
x)	Bottom Width of Cut off Trench	9.00	m
xi)	Depth of Grout Curtain	½ high of dam with min. (23 m)	
III.4	Saddle Dam on Chui Sot		
i)	Foundation rock	Sand rock with thin bands of clayshale	
ii)	Type of dam	Earth and Boulder Fill	
iii)	Top elevation of dam	378.50	m
iv)	Top width of dam	12.00	m



Annexure II.1

SALIENT FEATURES OF RAMGANGA MULTI PURPOSE IRRIGATION PROJECT

v)	Bearing of Axis	N 8° 20' 33" W	
vi)	Length of Crest	562.0	m
vii)	Width of the Stream at Bed level	15.0	m
viii)	Max Height above deepest foundation level	71.35	m
ix)	Upstream Slope and Downstream Slope	2.5.1 and 2.25.1 respectively	
x)	Bottom Width of Cut off Trench	9	m
III.5 Diversion Tunnels			
i)	No of Tunnels	2 Nos concrete lined (Circular)	
ii)	Diameter of Tunnels		
	a) Excavated	11.176	m
	b) Finished	9.45	m
iii)	Length including portals		
	a) Tunnel No.1 (Straight)	597.93	m
	b) Tunnel No.2 (Curved)	713.011	m
iv)	Concrete lining	0.762	m Thick
v)	Bearing & Invert elevation at inlet	Tunnel no.1 N 5° 18' 45"W	Tunnel no.2 N 3° 59' 39"E
vi)	Tunnel invert elevation at outlet	263 m	262.73 m
vii)	Slopes	0.00437	0.00855
viii)	Discharge (at E1.337.62m)	1656.54 cumecs	1585.7 cumecs
ix)	Velocity (at E1.337.62m)	23.6 m/sec	22.62 m/sec
III.6 Intake Structures			
	Intake structure consists of a submerged vertical circular cage type trash rack structure, a vertical shaft and suitable transitions connecting the shaft with tunnel, controlled by cylindrical gate.		
i)	Finished Diameter of Shaft	5.640 m	6.7 m
ii)	Height of Shaft	32.537	m
iii)	Trash rack		
	a) 14 Nos of Size	3.7 x 5.5	m
	b) 2 nos of Size	3.65 x 5.5	m



SALIENT FEATURES OF RAMGANGA MULTI PURPOSE IRRIGATION PROJECT

iv)	Type of Gate	Hydraulically Operated Cylindrical with Remote Control	
v)	Size of Gate		
	a) Dia	6.18	m
	b) Height	5.796	m
vi)	Radius of Bend connecting shaft to the tunnel	10.050	m
vii)	Size of Gate Chamber 6.45 dia x 8.06 m	10.050	m
viii)	Size of Height Chamber 6.98 dia x 7.0 m		
III.7	Access Tunnel		
i)	Diameter		
	a) Excavated	3.2	m
	b) Finished	2.4	m
ii)	Length		
	a) Steel Gallary	51.9	m
	b) Tunnel	144.27	m
iii)	Concrete lining	300	m
iv)	Shape	Circular	
III.8	Chute Spillway		
i)	Bearing of Centre lines	N 3° 44' 45" W	
ii)	Type	Inclined chute with hydraulic jump basin concrete lined	
iii)	Design discharge at R.L. 368.86 m	7607	cum / sec
iv)	R.L. of Approach Channel	346.05	m
v)	R.L. of Crest	352.0	m
vi)	No of Bays	5	Nos.
vii)	Width of Bays	14.0	m
viii)	Width of Pier	3.65	m
ix)	Length of Crest	84.6	m
x)	Design Intensity of Discharge Over Crest	108.6	cum / sec
xi)	Top of Gate	366.304	m
xii)	Size of Tainter gates	14.0 x 14.6	m



Annexure II.1

SALIENT FEATURES OF RAMGANGA MULTI PURPOSE IRRIGATION PROJECT

xiii)	Width of Stilling Basin	120.16	m
xiv)	Lenth of Stilling Basin	84.0	m
xv)	Total Length of Spillway	632.897	m
xvi)	Elevation of Stilling Basin Floor	252.3	m
xvii)	Max. Velocity at the end of Chute	41.8	m / sec
III.9 Auxiliary Spillway			
i)	Bearing of Axis	N 1 ⁰ - 39' 27" E	
ii)	Type	Inclined Chute with a Bucket at the outfall	
iii)	Discharge at E1.366.86	1541	cum / sec
iv)	E1. of Crest	359.50	m
v)	No of Bays	3	Nos
vi)	Width of Bays	14.00	m
vii)	Width of Pier	2.50	m
viii)	Top of Gate	367.00	m
ix)	Size of tainter Gate	14.0 x 7.5	m
x)	Total Length of Spillway	287.84	m
III.10 Drainage Tunnels			
i)	Type	Vertical sides with Semi-Circular	
ii)	Width of Drainage Tunnels	1.50	m
iii)	Height of Drainage Tunnels	2.16	m
iv)	Total Length of Drainage Tunnels		
	a) Main Dam	1229.37	m
	b) Saddle Dam	271.50	m
III.11 Auxiliary Intake Structure			
i)	Finished Diameter of Shaft	4.20	m
ii)	Trash Rack		
	a) Vertical Type 8 Nos	2.39 x 3.0	m
	b) Hemispherical Type 1 no	6.38	m
iii)	Floating Bulkhead Gate		
	a) Height Overall	3.05	m
	b) Diameter of Cylindrical Shall	14.00	m
III.12 Auxiliary Outlet Works			
i)	Diameter of Butterfly Value 2 nos	2590	mm



SALIENT FEATURES OF RAMGANGA MULTI PURPOSE IRRIGATION PROJECT

ii)	Diamter of Howell Bunger value 2 nos	2134	mm
iii)	Diameter of Steel Pipe	2590	mm
IV	Hydro Electric Installation		
IV.1	Tunnel & Penstocks		
i)	Concrete Pressure Power Tunnel		
	a) Number	1	
	b) Diameter	9.45	m
	c) Length	216.0 m	m (approx)
ii)	Common Steel Penstock		
	a) Number	1	
	b) Diameter	7.925	m
	c) Length	246.60	m
iii)	Branch Steel Penstocks		
	a) Diamensions		
	i. Length	66.325	m
	ii. Width	34.900	m
	b) Installed Capacity	198	mw
	c) No. of Units (66 MW Each)(	3	
IV.2	Power Station		
	a) Dimensions		
	i. Length	66.325	m
	ii. Width	34.900	M
	b) Installed Capacity	198	MW
	c) No of Units (66 MW each)	3	
IV.3	Turbine & Governing System		
	a) Turbine:		
	i. Make	Heavy Electricals (I) Ltd. Bhopal	
	ii. Type	Francis, Vertical Shaft	
	iii. Number	3	
	iv. Output		
	a) Rated output at net Head of 97.25 m	92.400	HP (metric)
	b) Output at Minimum Head of 54.85 m	43.400	HP (metric) (Restricted)



Annexure II.1

SALIENT FEATURES OF RAMGANGA MULTI PURPOSE IRRIGATION PROJECT

	c) Output at Maximum Head of 108.85 m	92,400	HP (metric) (Restricted)
	v. Net Head at which turbines best efficiency occurs	81.4	m
	vi. Discharge (For 3 machines)	235.6	cum / sec
	vii. Normal Speed	187.5	rpm
	viii. Specific Speed (metric)	210	rpm
	ix. Maximum runaway – speed	370	rpm
	x. Best efficiency	92.5	%
	b) Governing System:		
	ii. Type of governors	Electric Hydraulic	
	iii. Gate closing time for full load rejection	10.9	secs
	iv. Maximum safe oil pressure for governor oil system	26.7	kg / cm ²
IV.4	Cranes Gantry	2 Nos Electric over – head Travelling Cranes 125 / 25 Tonnes each	
IV.5	Transformers 7 Switchyard		
	a) Generator Transformers:		
	i. Rating	75.0	MVA
	ii. Voltage ration	11 / 143	Kv. D/Y i i
	iii. Tapping	Nil	
	iv. Type of Cooling	O.F.W	
	v. Number	3	Nos
	b) Switchyard		
	i. 132 KV Bus	Double Busher with Bus – coupler breaker (Strung)	
	ii. 35 KV Bus	Single Rigid	



Month wise Maximum and Minimum Temperature form 1996 to 2000 (°C)

Year	Jan		Feb		March		April		May		June		July		Aug		Sept		Oct		Nov		Dec	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1996	-	-	-	-	-	-	-	-	33	24	32	23	29	23	28	21	27	18	26	16	22	11	15	10
1997	14	2	17	8	20	13	20	11	33	14	31	15	30	19	31	18	29	15	27	9	24	7	13	2
1998	21	3	20	5	24	5	30	9	34	14	36	18	30	18	30	18	30	16	28	12	28	9	24	6
1999	20	3	24	4	26	8	34	14	35	13	36	12	32	18	30	18	30	16	29	12	26	8	20	5
2000	20	4	23	3	25	5	31	13	34	13	30	15	30	17	30	17	29	14	32	12	27	8	22	6
Avg	19	3	21	5	24	7.7	29	12	34	16	33	17	30	19	30	18	29	16	28	12	25	9	19	6

Source: Agricultural Finance Corporation Ltd “Evaluation Study of Soil Conservation in the Catchment area of Ramganga under River Valley Project in Uttaranchal” Lucknow, 2001.



Annexure IV.1

District-wise Educational Institutions						
Sl. No	Name of the District	Pre-Project (1980 - 81)				
		Universities	Degree Colleges	Higher Secondary	Upper Primary	Primary
1	Aligarh	-	-	149	298	1414
2	Mathura	-	-	109	172	1120
3	Agra	-	-	142	341	1386
4	Etah	-	-	93	250	1105
5	Mainpuri	-	-	81	304	1312
6	Farrukhabad	-	-	117	330	1234
7	Etawah	-	-	113	312	1214
8	Kanpur Dehat	-	-	159	489	2150
	Kanpur Nagar					
9	Fathepur	-	-	71	200	973
10	Allahabad	-	-	187	387	1799
Total				1221	3083	13707
<i>Source: Directorate of Education, Uttar Pradesh, Allahabad and Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.</i>						



Annexure IV.1

District-wise Educational Institutions						
Sl. No	Name of the District	Post-Project (2007 -2008)				
		Universities	Degree Colleges	Higher Secondary	Upper Primary	Primary
1	Aligarh	2	11	537	1020	2991
2	Mathura	1	37	242	799	2162
3	Agra	0	68	440	1233	4256
4	Firozabad	0	28	273	541	1789
5	Etah	0	40	416	963	2922
6	Mainpuri	0	13	205	698	2092
7	Farrukhabad	0	22	179	1460	1460
8	Kannauj	0	18	201	1334	1334
9	Etawah	0	12	189	1814	1814
10	Auraiya	0	14	180	1397	1397
11	Kanpur Dehat	0	26	216	1697	1697
12	Kanpur Nagar	2	67	565	2833	2833
13	Fatehpur	0	15	262	2051	2051
14	Kaushambi	0	13	243	925	925
15	Allahabad	2	66	691	3233	3233
Total		7	450	4839	21998	32956
<i>Note: Statistical data pertaining to Hathras (Mahamayanagar) is not separately given but included in Aligarh & Mathura</i>						
<i>Source: Directorate of Education, Uttar Pradesh, Allahabad and Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.</i>						



Annexure IV.2

District-wise Number of Teachers, Students and Pupil-Teacher Ratio (Post Project)

Sl. No	Name of the District	Primary School			Upper Primary School			Higher Secondary School		
		T	S	Ratio	T	S	Ratio	T	S	T-S Ratio
1	Aligarh	5821	434960	75	2892	158870	55	3751	234746	63
2	Mathura	5425	348390	64	1942	147690	76	2980	151870	51
3	Agra	6331	675650	107	2102	334180	159 (H)	6234	276117	44
4	Firozabad	3898	298240	76	1524	136330	89	2919	147389	50
5	Etah	6426	491060	76	3759	198220	53	1737	200618	115 (H)
6	Mainpuri	4285	272430	63	1958	80960	41	1850	89918	49
7	Farukhabad	3583	297180	83	1949	77600	40	2444	97088	40
8	Kannauj	2836	265400	93	1545	127610	83	1960	84230	43
9	Etawah	4401	237770	54 (L)	2538	82150	32 (L)	2264	92597	41
10	Auraiya	3512	220540	63	1569	88330	56	2174	85516	39
11	Kanpur Dehat	3667	233040	63	1778	114150	64	2067	109650	53
12	Kanpur Nagar	4120	385930	94	2381	169240	71	8336	317319	38 (L)
13	Fathepur	6141	370300	62	1963	108100	55	2451	116399	47
14	Kaushambi	2610	286130	109 (H)	1259	84080	67	2461	128998	52
15	Allahabad	7250	779080	107	2802	376620	134	7452	362536	49
Total		70306	5596100	79	31961	2284130	71	51080	2494991	49

Note: Pre-Project details are not available

Source: Directorate of Education, Uttar Pradesh, Allahabad and Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.



Annexure IV.3

District-wise Literacy				
Sl. No	Name of the District	Pre-Project (1980-81)		
		% Total	Male	% to total Female
1	Aligarh	31.21	43.70	16.35
2	Mathura	29.71	44.92	12.25
3	Agra	33.45	44.32	20.36
4	Etah	26.19	37.05	13.06
5	Mainpuri	33.08	45.19	18.57
6	Farukhabad	32.37	43.03	19.47
7	Etawah	37.49	43.03	19.47
8	Kanpur Dehat	43.73	52.89	32.73
	Kanpur Nagar			
9	Fathepur	26.40	38.66	12.84
10	Allahabad	28.61	41.95	13.60
Total		322.24	434.74	178.7
Average		20.14	27.17	11.17
<i>Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.</i>				

District-wise Literacy				
Sl. No	Name of the District	Post-Project (2007-2008)		
		% of Lit to Total Population	% of Male Lit to Total Population	% of Female Lit to Total Population
1	Aligarh	59.70	73.22	43.88
2	Mathura	62.21	77.60	43.77
3	Agra	64.97	79.32	48.15
4	Firozabad	66.53	77.81	53.02
5	Etah	56.15	69.13	40.65
6	Mainpuri	66.51	78.27	52.67
7	Farukhabad	62.27	72.40	50.35
8	Kannauj	62.57	73.38	49.99
9	Etawah	70.75	81.15	58.49
10	Auraiya	71.5	81.18	60.08
11	Kanpur Dehat	66.59	76.84	54.49
12	Kanpur Nagar	77.63	82.08	72.50
13	Fathepur	59.74	73.07	44.62
14	Kaushambi	48.18	63.49	30.80
15	Allahabad	62.89	77.13	46.61
Total		958.19	1136.07	750.07
Average		64	76	50
<i>Note: Statistical data pertaining to Hathras (Mahamayanagar) is not seperately given but included in Aligarh & Mathura</i>				
<i>Source: http://upgov.nic.in/upinfo/census01/cen01-10.htm</i>				



Annexure IV.4

District-wise Demographic Details						
Sl. No	Name of the District	Pre-Project (1980-81)				
		Population				Density Sq Km
		Area Sq Km	Male	Female	Total	
1	Aligarh	5019	1394576	1170874	2565450	511
2	Mathura	3811	850982	692586	1543568	405
3	Agra	4805	1558585	1293889	2852474	594
4	Etah	4446	1005539	832216	1837755	413
5	Mainpuri	4343	939838	784219	1724057	397
6	Farukhabad	4274	1095733	906780	2002513	469
7	Etawah	4326	954893	793844	1748737	404
8	Kanpur Dehat	6176	2067308	1723241	3790549	614
	Kanpur Nagar					
9	Fathepur	4152	829027	743743	1572770	379
10	Allahabad	7261	2001659	1779006.00	3780665	521
Total		48613	12698140	10720398	23418538	482

Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.

District-wise Demographic Details						
Sl. No	Name of the District	Post-Project (2007-2008)				
		Population				Denstiy Sq Km
		Area Sq Km	Male	Female	Total	
1	Aligarh	5019	1607402	1384884	2992286	849
2	Mathura	3811	1127512	947004	2074516	621
3	Agra	4027	1961282	1659154	3620436	897
4	Firozabad	2361	1108668	944290	2052958	866
5	Etah	4446	1509199	1281211	2790410	627
6	Mainpuri	2760	859934	736784	1596718	577
7	Farukhabad	2181	849800	720608	1570408	723
8	Kannauj	2093	744170	644753	1388923	661
9	Etawah	2311	720749	618122	1338871	580
10	Auraiya	2015	635762	544231	1179993	586
11	Kanpur Dehat	3021	844339	718997	1563336	524
12	Kanpur Nagar	3155	2247216	1920783	4167999	1321
13	Fathepur	4152	1219602	1088782	2308384	555
14	Kaushambi	1780	682290	610864	1293154	727
15	Allahabad	5481	2626448	2309657	4936105	907
Total		48613	18744373	16130124	34874497	717

Note: Statistical data pertaining to Hathras (Mahamayanagar) is not seperately given but included in Aligarh & Mathura

Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.



Annexure VI.5

District-wise Occupational Categories of Workers (Pre project)												
Sl. No	Name of the District	Pre-Project (1980-81)										
		Cultivators		Agri Labourers		Workers in HH Industries		Others		Total		Total
		M	F	M	F	M	F	M	F	M	F	
1	Aligarh	280938	6093	125767	3094	36768	3415	176492	9579	619965	22181	642146
2	Mathura	218093	3653	62001	2155	15602	1255	110201	4831	405897	11894	417791
3	Agra	308325	7890	76584	3256	66975	4067	313863	15728	765747	30941	796688
4	Etah	364841	3477	61239	765	11855	2665	76062	3207	513997	10114	524111
5	Mainpuri	319616	1684	48716	455	8659	712	71247	2174	448238	5025	453263
6	Farukhabad	384582	1820	56949	1029	14264	5413	102140	8273	557935	16535	574470
7	Etawah	305644	2372	56187	2169	9911	1878	79433	3533	451175	9952	461127
8	Kanpur Dehat	381790	15863	112380	19415	56808	3664	443067	24919	994045	63861	1057906
	Kanpur Nagar											
9	Fathepur	266189	27702	80131	23387	10300	1817	60539	3785	417159	56691	473850
10	Allahabad	451249	66500	183482	76843	60430	12036	228457	26286	923618	181665	1105283
Total		3281267	137054	863436	132568	291572	36922	1661501	102315	6097776	408859	6506635
Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.												

Contd.,



Annexure IV.5

District-wise Occupational Categories of Workers (Post project)												
Sl. No	Name of the District	Post-Project (2007-2008)										
		Cultivators		Agri Labourers		Workers in HH Industries		Others		Total		Total
		M	F	M	F	M	F	M	F	M	F	
1	Aligarh	237288	24643	83926	10185	27314	10626	267969	35530	616497	80984	697481
2	Mathura	193476	37931	42694	10783	14349	5689	203461	29784	453980	84187	538167
3	Agra	242093	12509	62460	5268	39104	7577	410033	35058	753690	60412	814102
4	Firozabad	153075	6389	42841	2089	18378	6045	208341	17870	422635	32393	455028
5	Etah	381817	17425	78047	6379	18704	6487	137273	13702	615841	43993	659834
6	Mainpuri	235902	9815	36305	1435	6511	1369	68146	5632	346864	18251	365115
7	Farukhabad	201517	5603	52699	1706	15288	7068	89694	7326	359198	21703	380901
8	Kannauj	209880	9349	35604	2289	16257	11257	56112	6324	317853	29219	347072
9	Etawah	145018	5460	40384	2795	8835	2378	86785	6957	281022	17590	298612
10	Auraiya	152027	11432	36621	5467	5058	1962	65534	7048	259240	25909	285149
11	Kanpur Dehat	203753	19058	50827	8345	9202	1964	76936	7145	340718	36512	377230
12	Kanpur Nagar	167088	25326	62872	15870	31067	6252	668812	62991	929839	110439	1040278
13	Fathepur	255613	570000	91405	34663	16376	5657	120234	13487	483628	623807	1107435
14	Kaushambi	115656	29968	64916	31727	12470	6346	58568	5652	251610	73693	325303
15	Allahabad	315440	84028	107228	49321	68944	31958	403402	46277	895014	211584	1106598
Total		3209643	868936	888829	188322	307857	112635	2921300	300783	7327629	1470676	8798305

Note: Statistical data pertaining to Hathras (Mahamayanagar) is not separately given but included in Aligarh & Mathura

Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.



Annexure IV.6

District-wise Employment in Registered Factories			
Sl. No	Name of the District	Pre-project (1980-81)	
		No of Factories	Total Workers
1	Aligarh	279	8675
2	Mathura	94	2934
3	Agra	782	27557
4	Etah	21	1061
5	Mainpuri	46	3024
6	Farukhabad	37	1490
7	Etawah	59	1811
8	Kanpur Dehat	728	63435
	Kanpur Nagar		
9	Fathepur	33	708
10	Allahabad	201	17092
Total		2280	127787
<i>Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.</i>			

District-wise Employment in Registered Factories			
Sl. No	Name of the District	Post-project (2007-2008)	
		No of Factories	Total workers
1	Aligarh	178	7264
2	Mathura	160	8044
3	Agra	526	27827
4	Firozabad	292	13113
5	Etah	29	790
6	Mainpuri	80	1261
7	Farukhabad	69	2370
8	Kannauj	108	2714
9	Etawah	75	2019
10	Auraiya	19	450
11	Kanpur Dehat	116	4487
12	Kanpur Nagar	1048	30064
13	Fathepur	81	1249
14	Kaushambi	24	74
15	Allahabad	10	7186
Total		2815	108912
<i>Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.</i>			



Annexure IV.7

District-wise Scheduled Commercial Banks			
Sl. No	Name of the District	Pre-project (1980-81)	
		No of SCBs	Credit (Crores)
1	Aligarh	78	28
2	Mathura	74	21
3	Agra	134	63
4	Etah	42	9
5	Mainpuri	42	10
6	Farukhabad	71	16
7	Etawah	43	10
8	Kanpur Dehat	224	168
	Kanpur Nagar		
9	Fathepur	35	4
10	Allahabad	125	57
Total		868	386
<i>Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.</i>			

District-wise Scheduled Commercial Banks			
Sl. No	Name of the District	Post-project (2007-08)	
		No of SCBs	Credit (Crores)
1	Aligarh	169	1881
2	Mathura	143	1501
3	Agra	257	4502
4	Firozabad	86	933
5	Etah	113	697
6	Mainpuri	68	450
7	Farukhabad	77	454
8	Kannauj	57	422
9	Etawah	66	427
10	Auraiya	53	182
11	Kanpur Dehat	127	587
12	Kanpur Nagar	356	7191
13	Fathepur	100	422
14	Kaushambi	49	147
15	Allahabad	293	2326
Total		2014	22122
<i>Note: Statistical data pertaining to Hathras (Mahamayanagar) is not seperately given but included in Aligarh & Mathura</i>			
<i>Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.</i>			



Annexure IV.8

District-wise Co-operatives		
Sl. No	Name of the District	Pre-project (1980-81)
		Credit Societies
1	Aligarh	187
2	Mathura	110
3	Agra	207
4	Etah	105
5	Mainpuri	162
6	Farukhabad	124
7	Etawah	133
8	Kanpur Dehat	187
	Kanpur Nagar	
9	Fathepur	112
10	Allahabad	279
Total		1606
<i>Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.</i>		

District-wise Co-operatives				
Sl. No	Name of the District	Post-project (2007-08)		
		DCCB	Consumer Cooperative	Co-op Federation
1	Aligarh	1	1	1
2	Mathura	1	1	1
3	Agra	1	1	1
4	Firozabad	1	1	1
5	Etah	1	1	1
6	Mainpuri	1	1	1
7	Farrukhabad	1	1	1
8	Kannauj	0	0	0
9	Etawah	1	1	1
10	Auraiya	0	0	0
11	Kanpur Dehat	0	1	1
12	Kanpur Nagar	1	1	1
13	Fatehpur	1	1	1
14	Kaushambi	0	1	1
15	Allahabad	1	1	1
Total		11	13	13
<i>Note: Statistical data pertaining to Hathras (Mahamayanagar) is not separately given but included in Aligarh & Mathura</i>				
<i>Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.</i>				



Annexure IV.9

District-wise Other Co-operative Societies					
Sl. No	Name of the District	Post-project (2007-08)			
		Sugarcane Co-op societies	Milk Supply Co-op Societies	Housing Co-operative Societies	Marketing Co-op Societies
1	Aligarh	1	461	26	5
2	Mathura	1	161	39	4
3	Agra	0	291	329	4
4	Firozabad	0	2	21	2
5	Etah	1	216	71	5
6	Mainpuri	0	185	12	3
7	Farrukhabad	0	347	6	4
8	Kannauj	0	168	0	3
9	Etawah	0	311	0	3
10	Auraiya	0	0	0	4
11	Kanpur Dehat	0	0	0	3
12	Kanpur Nagar	4	679	231	4
13	Fatehpur	0	354	5	4
14	Kaushambi	0	0	0	2
15	Allahabad	0	625	177	6
Total		7	3800	917	56
Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.					



Annexure IV.10

District-wise Cinema Houses and Tourism		
Sl. No	Name of the District	Pre-project (1980-81)
		No of Cinema Houses
1	Aligarh	20
2	Mathura	9
3	Agra	37
4	Etah	7
5	Mainpuri	5
6	Farukhabad	8
7	Etawah	4
8	Kanpur Dehat	31
	Kanpur Nagar	
9	Fathepur	8
10	Allahabad	21
Total		150
<i>Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.</i>		

District-wise Cinema Houses and Tourism			
Sl. No	Name of the District	Post-project (2007-08)	
		No of Cinema Houses	Tourist Spots No of Tourists 1991 (lakh)
1	Aligarh	13	
2	Mathura	6	41.06
3	Agra	32	12.62
4	Firozabad	15	
5	Etah	13	
6	Mainpuri	9	
7	Farrukhabad	5	
8	Kannauj	6	
9	Etawah	6	
10	Auraiya	6	
11	Kanpur Dehat	4	
12	Kanpur Nagar	33	
13	Fatehpur	4	
14	Kaushambi	3	
15	Allahabad	23	40.00
Total		178	93.68 lakh
<i>Note: Statistical data pertaining to Hathras (Mahamayanagar) is not separately given but included in Aligarh & Mathura</i>			
<i>Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.</i>			



Annexure IV.11

District-wise Health Institutions							
Sl. No	Name of the District	Pre-Project (1980-81)					
		Allopathy		Homeopathy			Family Welfare Centers
		No	Beds	H	B	Doc	
1	Aligarh	66	1742	4	0	4	22
2	Mathura	49	1266	2	0	0	13
3	Agra	61	2866	4	0	0	29
4	Etah	42	491	6	0	0	18
5	Mainpuri	48	363	7	4	6	16
6	Farukhabad	42	589	10	12	9	18
7	Etawah	49	520	5	-	5	17
8	Kanpur Dehat	134	4201	9	25	18	36
	Kanpur Nagar						
9	Fatehpur	40	420	4	0	4	14
10	Allahabad	111	2967	14	29	23	34
Total		642	15425	65	70	69	217

Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.

District-wise Health Institutions							
Sl. No	Name of the District	Post-Project (2007-2008)					
		Allopathy		Homeopathy			Family Welfare Centers
		No's	Beds	H	B	Doc	
1	Aligarh	52	896	15	0	12	32
2	Mathura	62	618	16		15	21
3	Agra	78	933	10		7	45
4	Firozabad	64	892	8		8	15
5	Etah	92	729	18		16	25
6	Mainpuri	63	504	16		16	14
7	Farrukhabad	39	556	19	4	20	17
8	Kannauj	42	346	12		11	10
9	Etawah	65	850	16		15	12
10	Auraiya	35	232	9		6	13
11	Kanpur Dehat	48	458	15		13	19
12	Kanpur Nagar	87	1688	23	50	21	41
13	Fatehpur	67	590	43		41	19
14	Kaushambi	42	272	7		7	13
15	Allahabad	129	1724	34	50	33	52
Total		965	11288	261	104	241	348

Note: Statistical data pertaining to Hathras (Mahamayanagar) is not separately given but included in Aligarh & Mathura

Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.



Annexure IV.12

District wise Family Welfare Programmes in the Study Area (Post Project)			
Sl. No	Dist	Sterilization	I.U.D
1	Aligarh	7021	34719
2	Mathura	6791	32955
3	Agra	8255	35652
4	Firozabad	4430	20379
5	Etah	4294	12000
6	Mainpuri	1700	25591
7	Farrukhabad	1895	22409
8	Kannauj	1974	18811
9	Etawah	3063	17529
10	Auraiya	2185	19945
11	Kanpur Dahat	2605	17568
12	Kanpur Nagar	9066	42243
13	Fatehpur	7937	34500
14	Kaushambi	6827	15248
15	Allahabad	21454	67662
Total		89497	417211



Annexure IV.13

District-wise Infant Mortality Rate & Child Mortality Rate			
Sl. No	Name of the District	Pre-project (1980-81)	
		Infant Mortality	Child Mortality
1	Aligarh	129	210
2	Mathura	122	196
3	Agra	115	177
4	Etah	170	215
5	Mainpuri	121	204
6	Farukhabad	141	192
7	Etawah	117	196
8	Kanpur Dehat Kanpur Nagar	91	151
9	Fathepur	111	224
10	Allahabad	110	194
Total		1227	1959
Average		122.7	195.9
<i>Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.</i>			

District-wise Infant Mortality Rate & Child Mortality Rate			
Sl. No	Name of the District	Post-project (2007-08)	
		Infant Mortality	Child Mortality
1	Aligarh	104	126
2	Mathura	67	111
3	Agra	58	89
4	Firozabad	111	143
5	Etah	131	161
6	Mainpuri	99	128
7	Farrukhabad	78	132
8	Kannauj	NA	NA
9	Etawah	85	144
10	Auraiya	NA	NA
11	Kanpur Dehat	81	131
12	Kanpur Nagar	NA	111
13	Fatehpur	106	149
14	Kaushambi	NA	NA
15	Allahabad	109	131
Total		1029	1556
Average		93.55	129.67
<i>Source: Stastical Abstract, Uttar Pradesh, Economics & Statistics Division, State Planning Institute, Uttar Pradesh, Lucknow.</i>			
<i>Note: Statistical data pertaining to Hathras (Mahamayanagar) is not separately given but included in Aligarh & Mathura</i>			



Annexure V.1

Land use Pattern in Command Area on Time-Series Basis

										Land in hectares	
Year	Forest	Barren & Cultivable Land	Land put to NA use	Cultivable waste land	Permanent Pastures & Other waste land	Area in Shrubs	Current Fallows	Net Area Sown	Area Sown more than Once	GCA	CI*
1974-75	135241	320593	386173	231121	25697	82237	196828	3405670	1141544	4547214	133
Area Reported 4798380	2.82	6.68	8.05	4.82	0.54	1.71	4.10	70.98			
1982-83 (Source Project Report)	129038	265270	419774	169053	24735	55300	232978	3383639	1451667	4835306	143
Area Reported 4798380	2.69	5.53	8.75	3.52	0.52	1.15	4.86	70.52	0.00	0	0
* Command Area Blocks	120528	102874	398828	125156	17874	35993	219755	2937418	1616774	4554192	155
* Other command Area Blocks	25096	15676	89671	21735	2306	11553	84656	461339	283273	744612	161
Area Reported 739122	3.40	2.12	12.13	2.94	0.31	1.56	11.45	62.42	38.04	100.74	0
2007-2008 Total Area	145624	118550	488499	146891	20180	47546	304411	3398757	1900047	5298804	156
Area Reported 4059258	3.59	2.92	12.03	3.62	0.50	1.17	7.50	83.73	39.82	112.19	0
Area Reported 4798380	3.03	2.47	10.18	3.06	0.42	0.99	6.34	70.83	39.59	110.42	0
* Bifurcated data for command / non-command is not available for previous years											
* In respect of the year 2007-08 the data on command area is available only for 140 blocks											



Annexure V.2

Comparison of Land Pattern and Cropping Intensity in Command Area and Non - Command Area Blocks of the Project (Ramganga)

Dist Sl. No	Dist	Sl. no	Indicators	Total Area	Forest	Barren cultivable Waste	Current Fallow	Other Fallow s	Barren & Uncultivable land	Land put to Non Agriculture use	Pastures	Area Under Bush forest & Garden	Net Area Sown	Area Sown more than once	Gross Area sown Total	Net Irrigated Area	Gross Irrigated Area	Cropping Intensity
1			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Agra	1	Total of All Command Area Blocks	351076	32495	1936	17836	4769	4419	28154	859	8165	252443	118107	370550	225974	240083	147
	379989	2	Total of All Non Command Area Blocks	28913	660	79	417	219	270	2856	32	436	23944	12214	36158	22211	24672	151
		3	% Area to Total (C)	-	9.3	0.6	5.1	1.4	1.3	8.0	0.2	2.3	71.9	33.6	105.5	64.4	68.4	147
		4	% Area Total (NC)	-	2.3	0.3	1.4	0.8	0.9	9.9	0.1	1.5	82.8	42.2	125.1	76.8	85.3	151
2	Aligarh	1	Total of All Command Area Blocks	363602	2561	4860	6955	5072	7651	35142	1727	238	299396	214368	513764	283869	424352	172
	363602	2	Total of All Non Command Area Blocks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	% Area to Total (C)	-	0.7	1.3	1.9	1.4	2.1	9.7	0.5	0.1	82.3	59.0	141.3	78.1	116.7	172
		4	% Area Total (NC)	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Allahabad	1	Total of All Command Area Blocks	13495	10	204	1574	318	154	1822	18	398	8997	8143	17140	7054	15862	191
	534727	2	Total of All Non Command Area Blocks	521232	21445	11912	71585	22851	15624	64573	1620	9176	302446	175404	477850	234335	361046	158
		3	% Area to Total (C)	-	0.1	1.5	11.7	2.4	1.1	13.5	0.1	2.9	66.7	60.3	127.0	52.3	117.5	191
		4	% Area Total (NC)	-	4.1	2.3	13.7	4.4	3.0	12.4	0.3	1.8	58.0	33.7	91.7	45.0	69.3	158
4	Auriya	1	Total of All Command Area Blocks	176998	9256	4443	9970	4823	6144	17652	1105	623	122982	77707	200689	107793	154091	163
	205796	2	Total of All Non Command Area Blocks	28798	1027	819	1709	549	1002	2287	178	57	21170	16854	38024	20465	33235	180



Annexure V.2

Comparison of Land Pattern and Cropping Intensity in Command Area and Non - Command Area Blocks of the Project (Ramganga)

Dist Sl. No	Dist	Sl. no	Indicators	Total Area	Forest	Barren cultivab le Waste	Curre nt Fallow	Other Fallow s	Barren & Uncultiva table land	Land put to Non Agriculu re use	Pastur es	Area Under Bush forest & Garden	Net Area Sown	Area Sown more than once	Gross Area sown Total	Net Irrigat ed Area	Gross Irrigat ed Area	Croppi ng Intensi ty
		3	% Area to Total (C)	-	5.2	2.5	5.6	2.7	3.5	10.0	0.6	0.4	69.5	43.9	113.4	60.9	87.1	163
		4	% Area Total (NC)	-	3.6	2.8	5.9	1.9	3.5	7.9	0.6	0.2	73.5	58.5	132.0	71.1	115.4	180
5	Etah	1	Total of All Command Area Blocks	242726	144	11818	8870	11557	2318	19612	328	420	187659	120244	307903	177971	266308	164
	242726	2	Total of All Non Command Area Blocks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	% Area to Total (C)	-	0.1	4.9	3.7	4.8	1.0	8.1	0.1	0.2	77.3	49.5	126.9	73.3	109.7	164
		4	% Area Total (NC)	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Etwah	1	Total of All Command Area Blocks	218483	29143	6752	13116	4594	9806	21850	502	759	131961	83237	215198	109980	159666	163
	239386	2	Total of All Non Command Area Blocks	20903	956	417	2477	540	919	1740	37	109	13708	12122	25830	15332	23177	188
		3	% Area to Total (C)	-	13.3	3.1	6.0	2.1	4.5	10.0	0.2	0.3	60.4	38.1	98.5	50.3	73.1	163
		4	% Area Total (NC)	-	4.6	2.0	11.8	2.6	4.4	8.3	0.2	0.5	65.6	58.0	123.6	73.3	110.9	188
7	Farrukhabad	1	Total of All Command Area Blocks	170268	343	2946	19236	3911	4597	18552	651	3117	116915	53003	169918	104533	140210	145
	219164	2	Total of All Non Command Area Blocks	48896	175	1041	3775	825	1526	9233	157	1211	30953	13331	44284	28144	38655	143
		3	% Area to Total (C)	-	0.2	1.7	11.3	2.3	2.7	10.9	0.4	1.8	68.7	31.1	99.8	61.4	82.3	145
		4	% Area Total (NC)	-	0.4	2.1	7.7	1.7	3.1	18.9	0.3	2.5	63.3	27.3	90.6	57.6	79.1	143
8	Fatheppur	1	Total of All Command Area Blocks	414700	5208	10477	32610	14825	10725	47096	2403	6191	285165	112994	398159	183989	260402	140



Annexure V.2

Comparison of Land Pattern and Cropping Intensity in Command Area and Non - Command Area Blocks of the Project (Ramganga)

Dist Sl. No	Dist	Sl. no	Indicators	Total Area	Forest	Barren cultivab le Waste	Curre nt Fallow	Other Fallow s	Barren & Uncultiva table land	Land put to Non Agriculu re use	Pastur es	Area Under Bush forest & Garden	Net Area Sown	Area Sown more than once	Gross Area sown Total	Net Irrigat ed Area	Gross Irrigated Area	Croppi ng Intensi ty
	414700	2	Total of All Non Command Area Blocks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	% Area to Total (C)	-	1.3	2.5	7.9	3.6	2.6	11.4	0.6	1.5	68.8	27.2	96.0	44.4	62.8	140
		4	% Area Total (NC)	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Ferozabad	1	Total of All Command Area Blocks	215283	8611	2694	7441	6594	6240	21154	623	1081	16084 5	95167	256012	153584	199141	159
	239872	2	Total of All Non Command Area Blocks	24589	0	266	695	571	410	2412	1	115	20119	10696	30815	19757	22134	153
		3	% Area to Total (C)	-	4.0	1.3	3.5	3.1	2.9	9.8	0.3	0.5	74.7	44.2	118.9	71.3	92.5	159
		4	% Area Total (NC)	-	0	1.1	2.8	2.3	1.7	9.8	0.0	0.5	81.8	43.5	125.3	80.3	90.0	153
10	Kannauj	1	Total of All Command Area Blocks	198120	12829	3880	13582	5792	4685	17651	2079	1899	13572 3	78196	213919	132101	169897	158
	208973	2	Total of All Non Command Area Blocks	10853	487	305	391	126	419	1212	8	46	7859	4998	12857	5300	8185	164
		3	% Area to Total (C)	-	6.5	2.0	6.9	2.9	2.4	8.9	1.0	1.0	68.5	39.5	108.0	66.7	85.8	158
		4	% Area Total (NC)	-	4.5	2.8	3.6	1.2	3.9	11.2	0.1	0.4	72.4	46.1	118.5	48.8	75.4	164
11	Kanpur ng	1	Total of All Command Area Blocks	275877	5295	6671	28208	5725	16501	30277	2999	1755	17844 6	75505	253951	126303	172554	142
	275877	2	Total of All Non Command Area Blocks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	% Area to Total (C)	-	1.9	2.4	10.2	2.1	6.0	11.0	1.1	0.6	64.7	27.4	92.1	45.8	62.5	142
		4	% Area Total (NC)	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Annexure V.2

Comparison of Land Pattern and Cropping Intensity in Command Area and Non - Command Area Blocks of the Project (Ramganga)

Dist Sl. No	Dist	Sl. no	Indicators	Total Area	Forest	Barren cultivab le Waste	Curre nt Fallow	Other Fallow s	Barren & Uncultiva table land	Land put to Non Agriculu re use	Pastur es	Area Under Bush forest & Garden	Net Area Sown	Area Sown more than once	Gross Area sown Total	Net Irrigat ed Area	Gross Irrigated Area	Croppi ng Intensi ty
12	Kaushambi	1	Total of All Command Area Blocks	178729	702	3801	6778	4745	7825	18708	523	3584	13206 3	43646	175709	91958	120088	133
	178729	2	Total of All Non Command Area Blocks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	% Area to Total (C)	-	0.4	2.1	3.8	2.7	4.4	10.5	0.3	2.0	73.9	24.4	98.3	51.5	67.2	133
		4	% Area Total (NC)	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Mahamaya ng	1	Total of All Command Area Blocks	180127	2197	1703	2570	2588	3410	18183	1010	322	14814 4	83803	231947	147896	191664	157
	180127	2	Total of All Non Command Area Blocks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	% Area to Total (C)	-	1.2	0.9	1.4	1.4	1.9	10.1	0.6	0.2	82.2	46.5	128.8	82.1	106.4	157
		4	% Area Total (NC)	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	Mainpuri	1	Total of All Command Area Blocks	251524	1677	7189	22779	15203	15394	18020	1336	1397	16852 9	155522	324051	164634	313926	192
	272723	2	Total of All Non Command Area Blocks	21199	98	194	3252	1190	908	1360	31	215	13951	17691	31642	13951	31419	227
		3	% Area to Total (C)	-	0.7	2.9	9.1	6.0	6.1	7.2	0.5	0.6	67.0	61.8	128.8	65.5	124.8	192
		4	% Area Total (NC)	-	0.5	0.9	15.3	5.6	4.3	6.4	0.1	1.0	65.8	83.5	178.9	65.8	148.2	272
15	Mathura	1	Total of All Command Area Blocks	296357	1346	4995	5524	2752	4236	33153	1103	707	24254 1	105007	347548	233330	282823	143
	330096	2	Total of All Non Command Area Blocks	33739	248	643	355	219	657	3998	242	188	27189	19963	47152	26807	41597	173
		3	% Area to Total (C)	-	0.5	1.7	1.9	0.9	1.4	11.2	0.4	0.2	81.8	35.4	117.3	78.7	95.4	143



Annexure V.2

Comparison of Land Pattern and Cropping Intensity in Command Area and Non - Command Area Blocks of the Project (Ramganga)

Dist Sl. No	Dist	Sl. no	Indicators	Total Area	Forest	Barren cultivable Waste	Current Fallow	Other Fallow s	Barren & Uncultivable land	Land put to Non Agriculture use	Pastures	Area Under Bush forest & Garden	Net Area Sown	Area Sown more than once	Gross Area sown Total	Net Irrigated Area	Gross Irrigated Area	Cropping Intensity
		4	% Area Total (NC)	-	0.7	1.9	1.1	0.6	1.9	11.8	0.7	0.6	80.6	59.2	139.8	79.5	123.3	173
16	Kanshiram Nagar	1	Total of All Command Area Blocks	196909	2914	11030	6272	5475	3576	24959	232	823	141628	98977	240605	135762	214076	170
	196909	2	Total of All Non Command Area Blocks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	% Area to Total (C)	-	1.5	5.6	3.2	2.8	1.8	12.7	0.1	0.4	71.9	50.3	122.2	68.9	108.7	158
		4	% Area Total (NC)	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Ramabai nagar	1	Total of All Command Area Blocks	314984	5797	17475	16434	15306	17475	26843	376	4514	223981	93148	317129	164232	211804	142
	314984	2	Total of All Non Command Area Blocks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	% Area to Total (C)	-	2	6	5	5	6	9	0	1	67					129
		4	% Area Total (NC)	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gross Total of All Command Area Blocks				4059258	120528	102874	219755	114049	125156	398828	17874	35993	2937418	1616774	4554192	2550963	3536947	155
Gross Total of All Non Command Area Blocks				739122	25096	15676	84656	27090	21735	89671	2306	11553	461339	283273	744612	386302	584120	161
% Area to Total (C)				-	3.0	2.5	5.4	2.8	3.1	9.8	0.4	0.9	72.4	39.8	112.2	62.8	87.1	
% Area to Total (C)					3.4	2.1	11.5	3.7	2.9	12.1	0.3	1.6	62.4	38.3	100.7	52.3	79.0	



Annexure V.3

Cropping Intensity During Fast Growth Period

Sl. No	Name of the District	Cropping Intensity						
		1975	1976	1977	1978	1979	1980	1982
1	Agra	128	128	127	126	130	134	136
2	Aligarh	152	153	156	147	157	163	162
3	Allahabad	126	126	122	129	133	137	137
4	Auriya	0	0	0	0	0	0	0
5	Etah	140	148	149	146	149	154	158
6	Etawah	127	129	128	135	139	141	141
7	Farrukhabad	138	138	134	137	143	145	144
8	Fatehpur	0	0	0	0	0	0	131
9	Firozabad	0	0	0	0	0	0	0
10	Kannauj	0	0	0	0	0	0	0
11	Khanpur nagar	0	0	0	0	0	0	0
12	Kanshiram Nagar	0	0	0	0	0	0	0
13	Koushambi	0	0	0	0	0	0	0
14	Mahamayanagar	0	0	0	0	0	0	0
15	Mainpuri	136	140	149	143	146	146	149
16	Mathura	131	134	134	128	138	141	141
17	Ramabai nagar / Kanpur Dehat	122	120	117	125	129	132	128
Total		1200	1216	1216	1216	1264	1293	1427
Average		133	135	135	135	140	144	143



Annexure V.4

Cropping Intensity during Slow Growth Period

Sl. No	Name of the District	Cropping Intensity																	
		1990	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
1	Agra	133	130	131	131	133	136	137	143	142	142	142	146	140	142	147	146	145	147
2	Aligarh	166	159	157	161	164	163	170	166	164	165	169	168	158	165	168	170	172	173
3	Allahabad	137	141	142	131	140	138	144	139	154	154	157	151	148	148	149	154	158	159
4	Auriya	0	0	0	0	155	156	159	155	155	160	159	162	153	154	162	161	164	166
5	Etah	166	161	166	166	166	165	166	173	161	163	158	167	159	160	163	165	164	164
6	Etawah	148	151	154	155	155	156	158	153	155	155	160	160	155	167	161	161	166	165
7	Farrukhabad	145	145	154	161	161	159	147	146	155	149	140	148	135	142	146	145	146	145
8	Fatehpur	129	134	136	130	136	137	139	146	146	147	140	142	133	138	140	143	139	140
9	Firozabad	146	144	147	151	150	147	150	148	161	157	159	159	152	154	159	158	159	158
10	Kannauj	0	0	0	0	0	0	103	165	164	164	160	162	157	159	156	158	155	158
11	Khanpur nagar	143	150	147	141	142	146	156	153	151	155	154	147	136	138	144	144	143	141
12	Kanshiram Nagar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	170
13	Koushambi	0	0	0	0	140	136	123	128	126	130	135	144	120	136	135	132	131	133
14	Mahamaya nagar	0	0	0	0	0	0	155	155	155	156	164	161	152	156	162	160	159	157
15	Mainpuri	146	158	154	167	166	161	167	162	168	160	164	162	148	150	185	182	198	195
16	Mathura	141	135	143	141	144	142	141	145	145	151	158	157	144	150	148	146	145	146
17	Ramabai nagar / Kanpur Dehat	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total		1731	1608	1631	1635	1950	1942	2212	2277	2302	2309	2318	2335	2187	2257	2325	2326	2345	2517
Average		144	146	148	149	150	149	147	152	153	154	155	156	146	150	155	155	156	157



Annexure V.5

Trend of Cropping Intensity - Climatic Conditions During 2002-03

2002 - 2003											
30 .	Climate										
30 .1	<u>Rain</u>										
30 .1 .1	Normal	mm	2002	702	620	751	751	722	738	0	612
30 .1 .2	Actual	mm	2002	400	533	345	345	324	647	264	408.29
		"	"								
30 .2	Temperature										
30 .2 .1	<u>Maximum</u>	Centigrade	2000-01	-	0	-	-	0	45.2	-	45.2
30 .2 .2	Minimum	Centigrade	2000-01	-	1.5	2.4	-	0	2.6	-	0
		"	"								
31 .	<u>Irrigation</u>										
31 .1	Canal length	k.m.	2002-03	565	1367	737	465	1139	1014	589	5876
31 .2	Government tube well	Number	2002-03	624	2	347	230	646	327	132	2308
			"								
31 .3	Private tube well and pump set	Number	2002-03	77424	68221	72627	21023	82761	68879	44846	435781
		"	"								



Annexure V.6

District-Wise Area under Various Crops during Pre and Post-Project

Sl. No	Name of the Districts	Post Project- 2007-08 in hectares							
		Rice	Jowar	Bajra	Maize	Wheat	Groundnut	Sugarcane	Potato
1	Aligarh	47676	7	85974	26820	219466	2	9653	13642
2	Mathura	39121	76	40835	396	192250	8	5239	10399
3	Agra	1414	59	107579	94	137440	2	360	42357
4	Etah	37381	1	78175	58802	228088	977	9600	10139
5	Mainpuri	66793	555	17890	53588	163073	494	600	14940
6	Farukhabad	15539	1618	4290	39611	70971	432	7668	29400
7	Etawah	47766	144	39411	6164	93690	36	656	9862
8	Kanpur Dehat / Ramabai Nagar	53981	15149	16227	15821	118606	14	2742	3385
9	Kanpur Nagar	39883	13316	984	20639	101125	240	3981	10579
10	Fathapur	79463	13840	6677	430	151571	426	8682	6248
11	Allahabad	170653	6183	28243	131	212020	0	723	11750
12	Firozabad	16076	88	65621	8041	104497	30	168	37150
13	Auriya	48726	1539	30775	10605	96504	252	957	3864
14	Kannauj	17750	1166	2957	409042	73169	1130	373	37620
15	Kaushambi	43809	6982	10754	225	65898	760	1451	3851
Total		726031	60723	536392	650409	2028368	4803	52853	245186

Note: Data for Mahamaya Nagar and Kashiram nagar not separately available. Shown in erstwhile districts namely Aligarh, Mathura and Etah

Source: Directorate of Agriculture and Stastical Abstract-Uttar Pradesh



Annexure V.7

District-wise Production Levels of Major Crops Post-Project

Sl. No	Name of the Districts	Post Project- 2007-08							
		Lakh Tones	Tones				Lakh Tones	Tones	Lakh Tones
		Rice	Jowar	Bajra	Maize	Wheat	Groundnut	Sugarcane	Potato
1	Aligarh	0.98	7	147698	42740	6.27	2	5.76	3.19
2	Mathura	0.82	80	38835	741	5.41	6	2.32	2.85
3	Agra	0.02	63	149253	154	3.79	2	0.19	9.76
4	Etah	0.80	1	141488	112287	6.46	730	5.00	2.16
5	Mainpuri	1.68	586	34874	107847	4.85	369	0.32	2.96
6	Farukhabad	0.35	1481	5406	56159	2.31	323	4.74	7.75
7	Etawah	1.28	132	67658	10275	3.07	27	0.36	1.98
8	Kanpur Dehat / Ramabai nagar	1.03	18244	25414	16196	4.16	11	1.24	1.15
9	Kanpur Nagar	0.66	15059	1645	29280	3.03	184	1.85	2.06
10	Fathepur	1.26	19498	7944	575	3.78	319	4.15	0.90
11	Allahabad	3.62	8506	25834	174	4.94	0	0.28	2.40
12	Firozabad	0.47	93	121321	18795	3.06	22	0.09	9.70
13	Auriya	1.35	1758	53783	20511	3.03	188	0.52	1.19
14	Kannauj	0.43	1068	4942	77170	2.55	845	0.20	9.57
15	Kaushambi	0.67	11047	12400	301	1.43	568	0.58	0.56
	Total	15.41	77623	838495	493205	58.15	3596	27.60	58.18

Note: Data for Mahamaya Nagar and Kashiram nagar not separately available. Shown in erstwhile districts namely Aligarh, Mathura and Etah

Source: Directorate Agriculture and Stastical Abstract-Uttar Pradesh



Annexure V.8

District-wise Productivity of Major Crops under Post-Project									
Sl. No	Name of the Districts	Post- Project- 2007-08 (Qtls / hectare)							
		Rice	Jowar	Bajra	Maize	Wheat	Groundnut	Sugarcane	Potato
1	Aligarh	20.59	10.56	17.18	15.94	28.57	7.48	597	234
2	Mathura	21.53	10.56	9.51	18.71	28.14	7.48	442	274
3	Agra	18.97	10.56	17.18	16.38	27.58	7.48	534	230
4	Etah	21.65	10.56	17.1	19.1	28.34	7.48	504	213
5	Mainpuri	25.23	10.56	19.49	20.13	29.73	7.48	534	198
6	Farukhabad	22.77	9.16	9.88	14.18	32.6	7.48	619	263
7	Etawah	26.78	9.16	13.81	16.57	32.77	7.48	544	233
8	Kanpur Dehat / Ramabai Nagar	19.01	12.07	9.51	10.21	35.05	7.48	451	255
9	Kanpur Nagar	16.63	11.31	15.27	11.13	30.00	7.48	465	237
10	Fathepur	15.96	14.09	13.09	13.37	24.97	7.48	477	145
11	Allahabad	21.19	13.76	14.24	13.28	23.32	0	398	204
12	Firozabad	21.65	10.56	18.49	23.37	29.32	7.48	534	261
13	Auriya	27.68	11.42	13.81	19.34	31.37	7.48	544	308
14	Kannauj	24.08	9.16	13.81	15.74	34.09	7.48	544	254
15	Kaushambi	15.20	15.82	11.51	13.38	21.75	7.48	398	146
Total		318.92	169.31	213.88	240.83	437.6	104.72	7585	3455
Average		21.26	11.29	14.26	16.06	29.17	6.98	505.67	230.33
<i>Note: Data for Mahamaya Nagar and Kashiram nagar not separately available. Shown in erstwhile districts namely Aligarh, Mathura and Etah</i>									
<i>Source: Directorate of Agriculture and Stastical Abstract: Uttar Pradesh</i>									



Annexure V.9

Area, Production and Productivity of Major Crops in Command Area Blocks

Sl. No	Crops	Year	Area in 000 hectares	Production in (000 tonnes)	Average Productivity Qtl / hec
1	Rice	1973-74	448	406	9.08
		1984-85	561	621	11.08
		2007-08	726	1541	21.26
2	Jowar	1973-74	170	110	6.49
		1984-85	135	123	9.13
		2007-08	60	77	11.29
3	Maize	1973-74	378	397	10.51
		1984-85	302	543	18.02
		2007-08	650	493	16.44
4	Bajra	1973-74	640	526	8.22
		1984-85	574	581	10.12
		2007-08	536	838	14.26
5	Wheat	1973-74	1272	1402	11.02
		1984-85	1652	3702	25.5
		2007-08	2028	5815	29.17
6	Sugarcane	1973-74	93	3277	352.75
		1984-85	70	2760	367.15
		2007-08	53	5816	505.67
7	Groundnut	1973-74	56	48	8.63
		1984-85	8	3	3.91
		2007-08	5	3	6.98
8	Potato	1973-74	70	651	93.69
		1984-85	127	2425	191.37
		2007-08	245	5818	230.33



Annexure V.10

District-wise Animal Census																	
Sl. No	Name of the Districts	Pre-Project (1976-77)				Pre-Project (1980-81)				Post-Project (2007-08)				% Increase in Cattle	% Increase in Buffalo	% Increase in Sheep	% Increase in Poultry
		Cattle	Buffalo	Sheep	Poultry	Cattle	Buffalo	Sheep	Poultry	Cattle	Buffalo	Sheep	Poultry				
1	Aligarh	55978	274486	18269	46785	274393	472100	13982	48195	143750	716174	9587	72326	256.80	260.91	52.48	154.59
2	Mathura	64312	172941	31309	39715	192514	314612	22245	30441	130871	666360	43596	50419	203.49	385.31	139.24	126.95
3	Agra	68372	199789	28886	24715	246523	383645	27768	36363	160929	710522	72296	61979	235.37	355.64	250.28	250.77
4	Etah	36049	199899	16912	29858	261533	358435	16824	40144	181454	683301	8343	80124	503.35	341.82	49.33	268.35
5	Mainpuri	44124	173487	16850	22062	195320	372812	11933	33616	81378	282430	4077	63426	184.43	162.80	24.20	287.49
6	Farukhabad	59894	132785	18954	40361	263309	307739	2143	70160	128372	229652	13246	58091	214.33	172.95	69.88	143.93
7	Etawah	66570	114329	15743	38089	236961	343900	15501	66970	110825	208608	4526	34768	166.48	182.46	28.75	91.28
8	Kanpur Dehat / Ramabai Nagar	164775	164365	23536	69932	479889	381945	26146	70422	170806	200641	17664	76410	103.66	122.07	75.05	109.26
9	Kanpur Nagar	0	0	0	0					186437	278949	9506	140033	0.00	0.00	0.00	0.00
10	Fathepur	107581	106171	72346	75552	395936	253608	93500	88026	331859	370964	113074	156387	308.47	349.40	156.30	206.99
11	Allahabad	240930	179308	179045	195170	908439	341804	168972	182986	678722	472671	116682	346705	281.71	263.61	65.17	177.64
12	Firozabad									85929	444726	14288	50629	0.00	0.00	0.00	0.00
13	Auriya									97183	199509	7958	72184	0.00	0.00	0.00	0.00
14	Kannauj									125752	234479	13715	82822	0.00	0.00	0.00	0.00
15	Kaushambi									151861	168915	38225	97942	0.00	0.00	0.00	0.00
	Total	908585	1717560	421850	582239	3454817	3530600	399014	667323	2766128	5867901	486783	1444245	204.44	241.64	15.39	148.05

Note: Data for Mahamaya Nagar and Kashiram nagar not separately available. Shown in erstwhile districts namely Aligarh, Mathura and Etah

Source: Directorate of Animal Husbandry and Statistical Abstract: Uttar Pradesh



Annexure V.11

District-wise Cross Breed Cattle (Female)

Sl. No	Name of the Districts	Post-Project (2007-08)			
		Deshi	Cross Breed	Total	% of Cross Breed
1	Aligarh	43504	13468	56972	24
2	Mathura	55323	6364	61687	10
3	Agra	50939	10878	61817	18
4	Etah	41382	5345	46727	11
5	Mainpuri	22899	2221	25120	9
6	Farukhabad	43249	5674	48923	12
7	Etawah	36520	1663	38183	4
8	Kanpur Dehat / Ramabai nagar	48256	15804	64060	25
9	Kanpur Nagar	57996	11310	69306	16
10	Fathepur	76478	2998	79476	4
11	Allahabad	201087	36240	237327	15
12	Firozabad	30828	4122	34950	12
13	Auriya	30657	2506	33163	8
14	Kannauj	36199	3654	39853	9
15	Kaushambi	39254	4000	43254	9
	Total	814571	126247	940818	13

Source: Directorate of Animal Husbandry and Stastical Abstract: Uttar Pradesh



Annexure V.12

Comparison of Cross Breed Cattle to Total Cattle Population

Sl. No	Name of the District	1993			2007			% Increase or Decrease		
		Cross Breed	Indigenous	Total	Cross Breed	Indigenous	Total	Cross Breed	Indigenous	Total
1	Aligarh	12027	235013	247040	33270	119254	152524	276.63	50.74	61.74
2	Mahamayanagar	0	0	0	9500	48112	57612	0.00	0.00	0.00
3	Mathura	5808	120353	126161	16618	124708	141326	286.12	103.62	112.02
4	Agra	11989	128879	140868	38829	165358	204187	323.87	128.30	144.95
5	Firozabad	6114	119139	125253	9932	78362	88294	162.45	65.77	70.49
6	Etah	7476	279758	287234	15448	183870	199318	206.63	65.72	69.39
7	Mainpuri	1532	105160	106692	6695	76302	82997	437.01	72.56	77.79
8	Farrukhabad	37451	276549	314000	13211	111628	124839	35.28	40.36	39.76
9	Kannauj	0	0	0	9740	118186	127926	0.00	0.00	0.00
10	Etawah	4202	286981	291183	3932	112213	116145	93.57	39.10	39.89
11	Auriya	0	0	0	7238	92721	99959	0.00	0.00	0.00
12	Kanpur Dehat	9479	409133	418612	48234	122662	170896	508.85	29.98	40.82
13	Kanpur Nagar	18372	81099	99471	26491	162665	189156	144.19	200.58	190.16
14	Fathepur	7059	448898	455957	7173	301292	308465	101.61	67.12	67.65
15	Kaushambi	0	0	0	11385	133710	145095	0.00	0.00	0.00
16	Allahabad	110907	841109	952016	91177	641585	732762	82.21	76.28	76.97
Total		232416	3332071	3564487	348873	2592628	2941501	50	-22	-17

Source: Animal Husbandry Department of UP



Annexure V.13

Targets and Achievements Under Service Area Credit Plan for Agriculture Sector

Sl. No	Name of the District	2004-05		2005-06		2006-07		2007-08		% 2004-05	% 2005-06	% 2006-07
		SAP Target	SAP AC	SAP Target	SAP AC	SAP Target	SAP AC	SAP Target	SAP AC			
1	Agra	30659	31777	41236	48292	59046	63410	75738		103.65	129.77	117.11
2	Allahabad	13966	28552	20167	11136	21866	1446	23275		204.44	70.63	55.22
3	Aligarh	29957	30767	39872	43064	51699	56028	66237		102.70	129.59	108.01
4	Auraiya	5504	5286	6733	6301	8801	7285	11425		96.04	127.37	93.58
5	Etah	36451	44643	46200	40706	55698	64717	76211		122.47	103.49	88.11
6	Etawah	7425	7625	9544	8161	12470	12560	13054		102.69	125.17	85.51
7	Farrukhabad	12058	11293	15454	14196	20059	20184	25806		93.66	136.85	91.86
8	Fatehpur	7134	11012	11075	12366	16058	16441	19634		154.36	100.57	111.66
9	Firozabad	32401	19338	36205	21100	38207	23426	43929		59.68	187.22	58.28
10	Kannauj	11636	11569	14113	12924	16575	16985	23148		99.42	121.99	91.58
11	Kanpur Dehat	17045	8622	10038	10842	18066	13058	20233		50.58	116.42	108.01
12	Kanpur Nagar	17083	16246	21395	15715	23794	14440	25994		95.10	131.69	73.45
13	Kaushambi	6928	4209	6936	4203	7969	4675	8396		60.75	164.79	60.60
14	Mahamayanagar	19757	19585	26302	27215	34800	35333	37690		99.13	134.30	103.47
15	Mainpuri	13332	12741	16218	14756	21200	19752	24000		95.57	127.29	90.99
16	Mathura	46970	42297	49727	43939	66651	45071	75508		90.05	117.57	88.36
Total		308306	305562	371215	334916	472959	414811	570278	0	99.11	121.49	90.22

Source: Stastical Abstract : Uttar Pradesh



Annexure V.14

Progress of Cooperatives

Sl. No	Particulars	1984-85	Aligarh	Hathras	Mathura	Agra	Firozabad	Etah	Mainpuri	Farrukhabad	Kannauj	Etawah	Auriya	Kanpur Dehat	Kanpur nagar	Fathepur	Kausambi	Allahabad	Total
1	No. of PACs	1268	113	82	79	103	80	102	61	70	48	60	79	99	90	115	64	207	1452
2	No. of Cooperative Marketing Societies	56	5	3	4	4	2	5	3	4	3	3	4	3	4	4	2	6	59
3	No. of District Cooperative Federation	10	1	0	1	1	1	1	1	1	0	1	0	1	1	1	1	1	13
4	No. of District Cooperative Banks	10	1	0	1	1	1	1	1	1	0	1	0	0	1	1	1	0	11

Source: Project Report (1984-85) of Ramganga & Statistical Abstract of UP (2007-08)



Annexure V.15

Institution-wise Share of Agricultural Credit Programmes for Year 2008-09

(Amount in lakh Rs.)

Sl. No	Name of the District	Crop Loan				Agriculture Term Loan			
		Comm. Banks	Coops	RRBs	Total	Comm. Banks	Coops	RRBs	Total
1	Agra	48099.00	6883.00	15106.00	70088.00	26173.00	1981.00	2320.00	30474.00
2	Allahabad	4680.50	1428.61	2782.00	8891.11	5099.53	294.53	1179.00	6573.06
3	Aligarh	19954.82	2035.67	34261.02	56251.51	13283.34	928.19	2742.06	16953.59
4	Auraiya	2944.00	1299.00	2534.00	6777.00	1276.00	217.00	541.00	2034.00
5	Etah	26400.02	20662.80	11351.84	58414.66	18171.22	16497.06	2288.87	36957.15
6	Etawah	4984.00	1455.00	2689.00	9128.00	7947.00	513.00	622.00	9082.00
7	Farrukhabad	6636.64	3136.25	7513.38	17286.27	9656.10	3067.36	1264.96	13988.42
8	Fatehpur	6905.13	1985.61	4883.98	13774.72	1918.00	214.24	2379.86	4512.10
9	Firozabad	19493.84	4852.75	3938.70	28285.29	5486.68	2055.15	434.62	7976.45
10	Kannauj	5599.00	1414.00	9413.00	16426.00	6125.00	187.00	3587.00	9899.00
11	Kanpur Dehat	4197.88	1065.18	5908.40	11171.46	2961.95	420.48	870.86	4253.29
12	Kanpur Nagar	3924.73	2340.68	6185.51	12450.92	4003.23	1817.58	1243.52	7064.33
13	Kaushambi	3539.73	634.32	1018.00	5192.05	906.96	96.62	277.00	1280.58
14	Mahamayanagar	17113.93	1101.10	13802.56	32017.59	9954.74	1012.09	1633.60	12600.43
15	Mainpuri	10349.00	1888.00	2050.00	14287.00	13413.00	915.00	600.00	14928.00
16	Mathura	25734.68	4674.94	234.98	30644.60	6933.34	1389.84	70.46	8393.64
Total		210556.9	56856.91	123672.4	391086.2	133309.09	31606.14	22054.81	186970.04

Source: Stastical Abstract : Uttar Pradesh



Annexure V.16

Comparison of District-wise Number of Factories and Labour Employment

Sl. No	Name of the District	Registered Factories		Total Workers	
		1978-79	2007-08	1978-79	2007-08
1	Aligarh	279	192	8675	8516
2	Mathura	94	180	2934	10011
3	Agra	782	536	27557	31206
4	Etah	21	31	1061	1063
5	Mainpuri	46	86	3024	1495
6	Farrukhabad	37	69	1490	2864
7	Etawah	59	76	1811	2378
8	Kanpur Dehat	728	1183	63435	45365
9	Kanpur Nagar				
10	Fathepur	33	81	708	1797
11	Allahabad	201	159	17092	10860
12	Firozabad	0	324	0	15766
13	Auriya	0	21	0	525
14	Kannauj	0	125	0	3322
15	Kausambi	0	11	0	97
16	Mahamaya Nagar	0	91	0	2837
Total		2280	3165	127787	138102
<i>Note: Not Applicable, New Districts</i>					
<i>Source: Stastical Abstract : Uttar Pradesh</i>					



Annexure V.17

District-wise Road, Transport, Marketing and Communication

Sl. No	Name of the Districts	Pre -Project (1977 - 78)								
		Villages linked in the Road	No of Printing Press	Post Offices	No of Registered Markets	Telegraph Office	PCO	Telephone Connections	Railway	Bus Stations
1	Aligarh	893	220	442		22	97	4420	24	148
2	Mathura	421	89	220		0	0	0	15	89
3	Agra	577	344	361		32	109	8757	19	92
4	Etah	830	40	265		0	169	4520	22	101
5	Mainpuri	810	49	211		0	0	0	20	97
6	Farukhabad	925	45	260		0	0	0	36	120
7	Etawah	795	158	267		0	0	0	14	98
8	Kanpur Dehat / Ramabai nagar	1139	884	368		42	117	22749	54	150
9	Kanpur Nagar	0	0	0						
10	Fathepur	764	25	185		0	0	0	14	69
11	Allahabad	1559	438	434		62	128	6814	53	365
12	Firozabad *	0	0	0		0	192	3690	0	
13	Auriya *	0	0	0		0	0	0	0	
14	Kannauj *	0	0	0		0	0	0	0	
15	Kaushambi *	0	0	0		0	0	0	0	
16	Mahamayanagar	0	0	0		0	0	0	0	
	Total	8713	2292	3013	0	158	812	50950	271	1329

Note: Data for Mahamaya Nagar and Kashiram nagar not separately available. Shown in erstwhile districts namely Aligarh, Mathura and Etah

*2) * Indicates no separate data available for Printing Press*

Source: Stastical Abstract : Uttar Pradesh



Annexure V.18

District-wise Road, Transport, Marketing and Communication

Sl. No	Name of the Districts	Post-Project (2007-08)								
		Villages linked in the Road	No of Printing Press	Post Offices	No of Registered Markets	Telegraph Office	PCO	Telephone Careders	Railway	Bus Stations
1	Aligarh	1041	199	305	8	0	1241	47164	11	182
2	Mathura	675	295	248	11	1	813	22741	20	107
3	Agra	845	1028	353	18	14	4501	109134	29	164
4	Etah	1317	98	312	17	6	1470	29020	15	133
5	Mainpuri	675	23	175	8	6	338	19888	7	87
6	Farukhabad	581	71	155	7	2	2166	39421	29	95
7	Etawah	595	263	177	5	4	966	29833	8	77
8	Kanpur Dehat / Ramabai nagar	496	1781	302	9	14	7152	160029	63	34
9	Kanpur Nagar	721	Incl 8	175	9					
10	Fathepur	1033	36	255	11	3	1076	16299	14	237
11	Allahabad	2131	738	422	19	5	6214	89789	85	241
12	Firozabad *	634	NA	153	6	6	1516	29714	11	53
13	Auriya *	533	NA	156	10	1	685	7192	6	109
14	Kannauj *	445	NA	147	11	2	1243	24169	8	79
15	Kaushambi *	603	NA	143	3	2	459	7967	9	70
16	Mahamayanagar					7	1619	26809	13	72
	Total	12325	4532	3478	152	73	31459	659169	328	1740

Note: Data for Mahamaya Nagar and Kashiram nagar not separately available. Shown in erstwhile districts namely Aligarh, Mathura and Etah

2) * Indicates no separate data available for Printing Press

Source: Stastical Abstract : Uttar Pradesh



Annexure V.19						
District-wise Number of Electrified Villages						
Sl. No	Name of the District	1977-78	1980-81	2007-08	Total inhabited Villages	% villages
1	Aligarh	744	807	1123	1180	95.17
2	Mahamayanagar	0	0	586	656	89.33
3	Mathura	381	397	704	736	95.65
4	Agra	472	479	887	903	98.23
5	Firozabad	0	0	715	795	89.94
6	Etah	572	637	1473	1517	97.10
7	Mainpuri	424	471	806	821	98.17
8	Farrukhabad	868	889	777	883	88.00
9	Kannauj	0	0	639	693	92.21
10	Etawah	414	516	635	686	92.57
11	Auriya	0	0	695	776	89.56
12	Kanpur Dehat	512	582	924	971	95.16
13	Kanpur Nagar	0	0	849	909	93.40
14	Fathepur	493	781	1299	1353	96.01
15	Kaushambi	0	0	715	742	96.36
16	Allahabad	1437	1951	2802	2802	100.00
Total		6317	7510	15629	16423	95.16
<i>Source: Stastical Abstract : Uttar Pradesh</i>						



Annexure V.20

Fertilizer Consumption per hectare (in kgs)

Sl. No	Name of District	1980-81 (Dosage)			1980-81 (Ratio)			2007-08 (Dosage)			2007-08 (Ratio)		
		N	P	K	N	P	K	N	P	K	N	P	K
1	Aligrah	30.55	11.66	2.61	12 :	5 :	1	100.98	39.88	6.75	15:	6:	1
2	Mathura	22.75	8.07	1.86	12:	4:	1	8.89	47.32	3.56	23:	13:	1
3	Mahamayanagar	0	0	0									
4	Agra	29.48	9.61	2.53	12:	4:	1	115.19	39.56	11.39	10:	3:	1
5	Mainpuri	26.24	8.77	2.76	10:	3:	1						
6	Firozabad	NA	NA	NA				116.08	47.86	8.93	13:	5:	1
7	Etah	24.77	8.05	2.1	12:	4:	1	113.41	31.04	2.94	39:	11:	1
8	Kashiram Nagar	NA	NA	NA									
9	Farrukahabad	54.55	13.82	5.03	11:	3:	1	218.07	55.99	21.43	10:	3:	1
10	Kannauj	NA	NA	NA				122.45	41.29	14.76	8:	3:	1
11	Etawah	32.46	7.67	2.34	14:	3:	1	97.31	44.64	5.42	18:	8:	1
12	Kanpur Nagar	32.09	7.12	1.95	16:	4:	1	222.69	72.48	12.23	18:	6:	1
13	Kanpur Dehat	NA	NA	NA				103.01	27.68	3.55	29:	8:	1
14	Fathepur	24.71	4.37	1.69	15:	3:	1	81.78	21.53	5.42	15:	5:	1
15	Allahabad	34.12	6.67	2.51	14:	3:	1	163.17	44.42	8.99	18:	5:	1
16	Kaushambai	NA	NA	NA				93.88	37.58	11.56	8:	3:	1
17	Auriya	NA	NA	NA				76.21	17.77	6.11	12:	3:	1
Total		311.72	85.81	25.38				1633.1	569.04	123			
Average		31.17	8.58	2.54				163	57	12			

Source: Department of Agriculture



Annexure V.21

Fertilizer Consumption in the Districts of Ramganga Command Area Project

Sl. No	Districts	Consumption - in kg/ha							
		Pre-Project				Post-Project			
		N	P	K	Total	N	P	K	Total
1	Aligarh, Mahamayanagar and Mathura	11.06	3.26	1.63	15.95	72.36	38.49	2.75	113.60
2	Agra, Firozabad and Mainpuri	16.68	4.96	1.9	23.54	93.03	40.39	5.27	138.69
3	Etah	13.22	3.35	1.6	18.17	74.71	28.5	3.68	106.89
4	Farrukhabad and Kannauj	24.82	5.06	4.64	34.52	131.88	61.03	15.54	208.45
5	Etawah and Auraiya	10.52	2.2	1.37	14.09	68.64	20.84	1.96	91.44
6	Kanpurnagar and Kanpur Dehat (Ramabai Nagar)	11.56	2.47	1.53	15.56	95.82	36.65	4.94	137.41
7	Fatehpur	8.79	2.84	1.14	12.77	91.62	35.74	4.71	132.07
8	Allahabad and Kaushambi	13.65	2.78	1.84	18.27	124.39	39.00	5.69	169.08
9	All the above districts	13.66	3.53	1.89	19.08	92.02	37.82	5.11	134.95
Source - Department of Agriculture, Uttar Pradesh									
Note:	Pre-project-Three years average from 1971-72 to 1973-74								
	Post-project-Three years average from 2003-04 to 2005-06								



Annexure VI.1

District-wise Groundwater Resource Potential of U.P. (As On 01/04/2000)
(Based On 01/04/2000 GW Draft)

S. No	District	Gw Availability (Ham)	Gw Draft (All Uses)	Level Of Development
			(As On 01/04/2000)	
			(Ham)	(%)
1	Agra	109269.5	78875.33	72.18
2	Aligarh	104588.6	80173.17	76.66
3	Allahabad	154252.68	68986.08	44.72
4	Ambedkar Nagar	84361.83	51793.69	61.39
5	Auraiya	75791.11	27793.55	36.67
6	Azamgarh	154318.17	80026.2	51.86
7	Bagpat	50348.41	40849.53	81.13
8	Bahraich	94425.32	45288.8	47.96
9	Ballia	114713.02	51994.66	45.33
10	Balrampur	113782.63	38904.72	34.19
11	Banda	102238.94	23184.88	22.68
12	Barabanki	251266.77	59272.56	23.59
13	Bareilly	139714.95	95524.76	68.37
14	Basti	106047.99	60581.12	57.13
15	Bijnor	138262.57	87650.82	63.39
16	Budaun	124193.63	108578.29	87.43
17	Buland Shahar	159608.39	102522.98	64.23
18	Chandauli	93281.25	19983.71	21.42
19	Chitrakut	36353.26	7589.53	20.88
20	Deoria	92357.11	58635.27	63.49
21	Etah	132761.82	101344.52	76.34
22	Etawah	76234.11	26068.31	34.2
23	Faizabad	113525.68	57612.12	50.75
24	Farrukhabad	77053.75	53020.56	68.81
25	Fatehpur	155605.92	64240.64	41.28
26	Firozabad	73762.87	53475.88	72.5
27	Gautam Buddha Nagar	61436.42	29239.98	47.59
28	Ghaziabad	94611.68	53178.09	56.21
29	Ghazipur	143069.08	59489.22	41.58
30	Gonda	149847.48	97215.75	64.88
31	Gorakhpur	118320.48	68419.92	57.83
32	Hamirpur	81041.44	19280.26	23.79
33	Hardoi	196654.4	93615.23	47.6
34	Hathras	66010.66	43540.53	65.96
35	Jalaun	104779.23	19784.17	18.88
36	Jaunpur	162357.02	90024.27	55.45
37	Jhansi	61470.82	26993.91	43.91
38	Jyotiba Phule Nagar	68554.55	54128.68	78.96
39	Kannauj	70003.24	40843.55	58.35
40	Kanpur Dehat	109882.22	59345.57	54.01



Annexure VI.1

**District-wise Groundwater Resource Potential of U.P. (As On 01/04/2000)
(Based On 01/04/2000 GW Draft)**

S. No	District	Gw Availability (Ham)	Gw Draft (All Uses)	Level Of Development
			(As On 01/04/2000)	
			(Ham)	(%)
41	Kanpur Nagar	179474.6	98654.28	54.97
42	Kaushambi	60286.37	20028.12	33.22
43	Kushi Nagar	152362.42	35965.23	23.61
44	Lakhimpur Kheri	307346.85	240357.56	78.2
45	Lalitpur	52343.88	27305.57	52.17
46	Lucknow	86765.45	43467.37	50.1
47	Maharajganj	148032.82	37377.25	25.25
48	Mahoba	33654.25	8454.93	25.12
49	Mainpuri	98139.64	65902.06	67.15
50	Mathura	99041.3	62258.86	62.86
51	Maunath Bhanjan	57637.99	33493.98	58.11
52	Meerut	137338.66	73605.72	53.59
53	Mirzapur	103235.85	19103.21	18.5
54	Moradabad	99059.85	75514.48	76.23
55	Muzaffar Nagar	191763.81	116245.34	60.62
56	Pilibhit	131112.74	74944.77	57.16
57	Pratapgarh	137792.3	42633.15	30.94
58	Raibareli	147713.83	77806.86	52.67
59	Rampur	102757.93	59456.79	57.86
60	Saharanpur	152580.6	103236.77	67.66
61	Sant Kabir Nagar	58001.57	27502.67	47.42
62	Sant Ravidas Nagar	43492.11	22144.58	50.92
63	Shahjahanpur	140974.03	83111.52	58.96
64	Shrawasti	61693.4	31972.13	51.82
65	Siddharth Nagar	109067.8	47988.88	44
66	Sitapur	279770.84	195055.78	69.72
67	Sonbhadra	89211.87	19324.21	21.66
68	Sultanpur	170385.72	76735.18	45.04
69	Unnao	178412.57	79625.34	44.63
70	Varanasi	56650.73	30651.57	54.11
	Total	8082260.77	4228994.96	52.32



Annexure VI.2

Ramganga Command Area Statistics (in Hectares)

Sl. No	Name of Districts	Gross Area (ha)	Groundwater Assessment Area (ha)
1	Agra	403000	385677
2	Aligarh	374700	340155
3	Auraiya	201800	203489
4	Etah	248500	42660
5	Etawah	232100	236469
6	Farrukhabad	218100	217328
7	Fatehpur	415200	423508
8	Firozabad	237100	234786
9	Kashi Ram Nagar *	195900	*Including Etah
10	Kannauj	209100	28557
11	Kanpur nagar	300000	292582
12	Kaushambi	202800	179310
13	Maha Maya Nagar	180000	204650
14	Mainpuri	274400	271066
15	Mathura	332900	280495
16	Ramabai Nagar	317800	293682
Total		4343400	43.43 Lakh ha



Annexure VI.3

Annual Rainfall Table Recorded in Ramganga Command for the Year 2001 - in M.M

Division / Districts	Stations	Total	Normal	Division / Districts	Stations	Total	Normal
		Rainfall	Rainfall			Rainfall	Rainfall
<u>Agra</u>	Aligarh	709.8	739.8	<u>Kanpur</u>	Farrukhabad	793.9	802.8
	Aligarh (Obsty.)	DNR	791.9		Farrukhabad (Obsty.)	DNR	DNR
	Khair	237.2	627.9		Kannauj	DNR	DNR
	Atauli	463.2	754.4		Kaimganj	771.3	802.6
	Koel	DNR	DNR		Amritpur	DNR	DNR
	Iglas	51.0	729.5		Fatehgarh	685.4	834.3
Aligarh	Dist. Total	1461.2	3643.5	Farrukhabad	Dist. Total	2250.6	2518.9
	Dist. Average	365.3	728.7		Dist. Average	750.2	810.2
	Hathras	349.2	576.1		Kannauj	256.6	799.1
	Iglas	DNR	DNR		Chibramau	97	808.1
	Sikandrao	DNR	678.0		Tirva	DNR	DNR
	Sadabad	254.0	645.4	Kannauj	Dist. Total	353.6	1607.2
Hathras	Dist. Total	603.2	1899.5		Dist. Average	176.8	803.6
	Dist. Average	301.6	633.2		Etawah	558.2	826.4
	Mathura	674.5	588.3		Etawah (Obsty.)	273.8	DNR
	Mathura (Obsty.)	120.2	DNR		Safai	DNR	DNR
	Chhata	388.0	605.1		Jaswant Nagar	DNR	DNR
	Moth	266.0	650.8		Bharthana	399.8	751.4
Mathura	Dist. Total	1448.7	1844.2	Etawah	Dist. Total	1231.8	1577.8
	Dist. Average	455.6	614.7		Dist. Average	483.9	789.3
	Agra	171.3	710.3		Auraiya	461.1	785.0
	Agra (Obsty.)	141.8	723.8		Vidhuna	428.2	829.6
	Kirawali	341.9	DNR	Auraiya	Dist. Total	889.3	1614.6
	Khairagrah	541.6	795.5		Dist. Average	444.8	807.5
	Fatehabad	659.6	774.8		Kanpur	400.0	748.9
	Bah	635.8	767.9		Kanpur (Obsty.)	DNR	DNR
	Etmadpur	170.8	679.8		Bihaur	604.5	811.0



Annexure VI.3

Annual Rainfall Table Recorded in Ramganga Command for the Year 2001 - in M.M

Division / Districts	Stations	Total	Normal	Division / Districts	Stations	Total	Normal
		Rainfall	Rainfall			Rainfall	Rainfall
Agra	Dist. Total	2662.8	4452.1		Ghatampur	621.5	818.9
	Dist. Average	417.4	742.1	Kanpur	Dist. Total	1626.0	2378.8
	Firozabad	612.1	708.1		Dist. Average	591.2	793.0
	Firozabad (Obsty.)	DNR	DNR		Kanpur Dehat	DNR	DNR
	Sikohabaad	490.7	708.3		Kanpur Dehat (Obsty.)	DNR	870.4
	Jasrana	426.2	710.4		Sikandara	DNR	DNR
	Tundla	DNR	DNR		Derapur	523.3	818.0
Firozabad	Dist. Total	1529.0	2126.8		Akbarpur	292.3	745.4
	Dist. Average	509.7	708.8		Bhognipur	576.0	836.9
	Mainpuri	865.8	740.5		Rasulabad	273.0	DNR
	Bhogaon	790.3	755.5	Kanpur Dehat	Dist. Total	2111.6	3275.0
	Karhal	542.3	745.5		Dist. Average	422.3	817.6
	Mainpuri (Obsty.)	303.3	732.2	<u>Allahabad</u>	Fatehpur	698.6	DNR
Mainpuri	Dist. Total	2501.7	2973.7		Fatehpur (Obsty.)	126.0	890.1
	Dist. Average	679.8	743.7		Bindki	539.6	DNR
	Etah	577.8	696.2		Khaga	471.2	1001.3
	Kasganj	497.2	761.3	Fatehpur	Dist. Total	1835.4	1891.4
	Aliganj	319.0	810.9		Dist. Average	579.1	946.1
	Jalesar	210.0	620.0		Manzhanpur	508.2	869.8
	Patiyali	530.3	DNR		Chayal	88.8	932.9
	Etah (Obsty.)	DNR	DNR		Sirathu	695.1	946.6
Etah	Dist. Total	2134.3	2134.3		Kaushambi	DNR	DNR
	Dist. Average	426.9	426.9	Kaushambi	Dist. Total	1292.1	2749.3
					Dist. Average	561.4	916.4

Contd.,



Annual Rainfall Table Recorded in Ramganga Command for the Year 2002 - in M.M

Division / Districts	Stations	Total Rainfall	Normal Rainfall	Division / Districts	Stations	Total Rainfall	Normal Rainfall
<u>Agra</u>	Aligarh	372.5	739.8	<u>Kanpur</u>	Farrukhabad	826.5	802.8
	Aligarh (Obsty.)	DNR	791.9		Farrukhabad (Obsty.)	222.4	DNR
	Khair	362.2	627.9		Kannauj	DNR	DNR
	Atauli	466.1	754.4		Kaimganj	723.8	802.6
	Koel	DNR	DNR		Amritpur	DNR	DNR
	Iglas	264.0	729.5		Fatehgarh	805.5	834.3
Aligarh	Dist. Total	1464.8	3643.5	Farrukhabad	Dist. Total	2578.2	2518.9
	Dist. Average	366.3	728.6		Dist. Average	750.5	810.2
	Hathras	538.2	576.1		Kannauj	462.7	799.1
	Iglas	DNR	DNR		Chibramau	410.1	808.1
	Sikandrao	DNR	678.0		Tirva	DNR	DNR
	Sadabad	409.0	645.4	Kannauj	Dist. Total	872.8	1607.2
Hathras	Dist. Total	947.2	1899.5		Dist. Average	436.5	803.8
	Dist. Average	473.6	648.7		Etawah	485.3	826.4
	Mathura	725.0	588.3		Etawah (Obsty.)	421.6	DNR
	Mathura (Obsty.)	DNR	DNR		Safai	DNR	DNR
	Chhata	479.6	605.1		Jaswant Nagar	DNR	DNR
	Moth	394.0	650.8		Bharthana	248.1	751.4
Mathura	Dist. Total	1598.6	1844.2	Etawah	Dist. Total	1155.0	1577.8
	Dist. Average	535.9	614.5		Dist. Average	403.8	789.3.
	Agra	380.9	710.3		Auraiya	341.0	785.0
	Agra (Obsty.)	46.6	723.8		Vidhuna	85.3	829.6
	Kirawali	548.2	DNR	Auraiya	Dist. Total	426.3	1614.6
	Khairagrah	361.2	795.5		Dist. Average	213.2	807.5
	Fatehabad	461.2	774.8		Kanpur	412.4	748.9
	Bah	503.3	767.9		Kanpur (Obsty.)	DNR	DNR
	Etmadpur	115.0	679.8		Bihaur	386.3	811.0
Agra	Dist. Total	2416.4	4452.1		Ghatampur	405.0	818.9



Annexure VI.3

Annual Rainfall Table Recorded in Ramganga Command for the Year 2002 - in M.M

Division / Districts	Stations	Total Rainfall	Normal Rainfall	Division / Districts	Stations	Total Rainfall	Normal Rainfall
	Dist. Average	398.5	742.1	Kanpur	Dist. Total	1203.7	2378.8
	Firozabad	455.3	708.1		Dist. Average	401.3	793.0
	Firozabad (Obsty.)	DNR	DNR		Kanpur Dehat	DNR	DNR
	Sikohabaad	406.3	708.3		Kanpur Dehat (Obsty.)	DNR	870.4
	Jasrana	398.8	710.4		Sikandara	119.9	DNR
	Tundla	DNR	DNR		Derapur	392.7	818.0
Firozabad	Dist. Total	1260.4	2126.8		Akbarpur	464.7	745.4
	Dist. Average	420.3	708.8		Bhognipur	380.0	836.9
	Mainpuri	879.2	740.5		Rasulabad	80.0	DNR
	Bhogaon	799.4	755.5	Kanpur Dehat	Dist. Total	1437.3	3275.0
	Karhal	407.3	745.5		Dist. Average	291.7	817.6
	Mainpuri (Obsty.)	500.8	732.2	<u>Allahabad</u>	Fatehpur	749.0	DNR
Mainpuri	Dist. Total	2586.7	2973.7		Fatehpur (Obsty.)	624.2	890.1
	Dist. Average	655.9	743.7		Bindki	515.4	DNR
	Etah	401.5	696.2		Khaga	555.5	1001.3
	Kasganj	460.0	761.3	Fatehpur	Dist. Total	2444.1	1891.4
	Aliganj	243.5	810.9		Dist. Average	639.6	946.1
	Jalesar	280.4	620.0		Manzhanpur	180.0	869.8
	Patiyali	554.8	DNR		Chayal	492.6	932.9
	Etah (Obsty.)	DNR	DNR		Sirathu	375.0	946.6
Etah	Dist. Total	1940.2	2888.4		Kaushambi	DNR	DNR
	Dist. Average	388.0	722.2	Kaushambi	Dist. Total	1047.6	2749.3
					Dist. Average	349.2	916.4

Contd.,



Annual Rainfall Table Recorded in Ramganga Command for the Year 2003 - in M.M

Division / Districts	Stations	Total Rainfall	Normal Rainfall	Division / Districts	Stations	Total Rainfall	Normal Rainfall
Agra	Aligarh	850.0	739.8	Kanpur	Farrukhabad	1991	802.8
	Aligarh (Obsty.)	1005.1	791.9		Farrukhabad (Obsty.)	DNR	DNR
	Khair	665.3	627.9		Kannauj	DNR	DNR
	Atauli	1584.1	754.4		Kaimganj	1365.5	802.6
	Koel	DNR	DNR		Amritpur	DNR	DNR
	Iglas	880.6	729.5		Fatehgarh	1603.1	834.3
Aligarh	Dist. Total	4985.1	3643.5	Farrukhabad	Dist. Total	4959.6	2518.9
	Dist. Average	997.1	727.0		Dist. Average	1653.2	810.2
	Hathras	1138.0	576.1		Kannauj	DNR	799.1
	Iglas	DNR	DNR		Chibramau	DNR	808.1
	Sikandrao	DNR	678.0		Tirva	DNR	DNR
	Sadabad	582.0	645.4	Kannauj	Dist. Total	DNR	1607.2
Hathras	Dist. Total	1720.0	1899.5		Dist. Average	DNR	803.6
	Dist. Average	860.0	648.7		Etawah	974.4	826.4
	Mathura	871.0	588.3		Etawah (Obsty.)	946	DNR
	Mathura (Obsty.)	DNR	DNR		Safai	363.1	DNR
	Chhata	470.0	605.1		Jaswant Nagar	337.6	DNR
	Moth	533.0	650.8		Bharthana	484.5	751.4
Mathura	Dist. Total	1874	1844.2	Etawah	Dist. Total	3105.6	1577.8
	Dist. Average	624.7	614.7		Dist. Average	621.1	788.9
	Agra	391.7	710.3		Auraiya	852.0	785.0
	Agra (Obsty.)	DNR	723.8		Vidhuna	92.3	829.6
	Kirawali	485.1	DNR	Auraiya	Dist. Total	944.3	1614.6
	Khairagrah	449.0	795.5		Dist. Average	472.2	807.3
	Fatehabad	458.7	774.8		Kanpur	816.1	748.9
	Bah	923.8	767.9		Kanpur (Obsty.)	DNR	DNR
	Etmadpur	383.2	679.8		Bihaur	596.7	811.0
Agra	Dist. Total	3091.5	4452.1		Ghatampur	866.0	818.9

Annexure VI.3

Annual Rainfall Table Recorded in Ramganga Command for the Year 2003 - in M.M

Division / Districts	Stations	Total Rainfall	Normal Rainfall	Division / Districts	Stations	Total Rainfall	Normal Rainfall
	Dist. Average	515.3	742.0	Kanpur	Dist. Total	2314.8	2378.8
	Firozabad	373.1	708.1		Dist. Average	768.6	792.9
	Firozabad (Obsty.)	DNR	DNR		Kanpur Dehat	DNR	DNR
	Sikohabaad	397.9	708.3		Kanpur Dehat (Obsty.)	DNR	870.4
	Jasrana	410.8	710.4		Sikandara	393.6	DNR
	Tundla	DNR	DNR		Derapur	941.0	818.0
Firozabad	Dist. Total	1181.8	2126.8		Akbarpur	555.0	745.4
	Dist. Average	393.9	708.9		Bhognipur	798.6	836.9
	Mainpuri	1430.8	740.5		Rasulabad	248.3	DNR
	Bhogaon	1687.4	755.5	Kanpur Dehat	Dist. Total	2936.5	3275.0
	Karhal	913.9	745.5		Dist. Average	587.3	817.5
	Mainpuri (Obsty.)	997.8	732.2	Allahabad	Fatehpur	1269.4	DNR
Mainpuri	Dist. Total	5029.9	2973.7		Fatehpur (Obsty.)	1234.4	890.1
	Dist. Average	1257.5	743.4		Bindki	798.1	DNR
	Etah	1065.8	696.2		Khaga	763.0	1001.3
	Kasganj	1342.9	761.3	Fatehpur	Dist. Total	4064.9	1891.4
	Aliganj	1037.0	810.9		Dist. Average	1023.0	945.7
	Jalesar	599.0	620.0		Manzhanpur	339.6	869.8
	Patiyali	1296.0	DNR		Chayal	806.0	932.9
	Etah (Obsty.)	DNR	DNR		Sirathu	890.2	946.6
Etah	Dist. Total	5340.7	2888.4		Kaushambi	DNR	DNR
	Dist. Average	1068.1	722.1	Kaushambi	Dist. Total	2035.8	2749.3
					Dist. Average	678.6	916.4

Contd.,

Volume-II
Page 71

AFC

Annexure VI.3

Annual Rainfall Table Recorded in Ramganga Command for the Year 2004 - in M.M

Division / Districts	Stations	Total Rainfall	Normal Rainfall	Division / Districts	Stations	Total Rainfall	Normal Rainfall
<u>Agra</u>	Aligarh	379.3	739.8	<u>Kanpur</u>	Farrukhabad	792.6	802.8
	Aligarh (Obsty.)	431.1	791.9		Farrukhabad (Obsty.)	DNR	DNR
	Khair	482	627.9		Kannauj	DNR	DNR
	Atauli	717.2	754.4		Kaimganj	576	802.6
	Koel	DNR	DNR		Amritpur	DNR	DNR
	Iglas	333.5	729.5		Fatehgarh	994.6	834.3
Aligarh	Dist. Total	2343.1	3643.5	Farrukhabad	Dist. Total	2363.2	2518.9
	Dist. Average	484.4	727.0		Dist. Average	787.7	810.2
	Hathras	559.4	576.1		Kannauj	412.2	799.1
	Iglas	DNR	DNR		Chibramau	474.1	808.1
	Sikandrao	DNR	678.0		Tirva	DNR	DNR
	Sadabad	377.0	645.4	Kannauj	Dist. Total	886.3	1607.2
Hathras	Dist. Total	936.4	1899.5		Dist. Average	443.2	803.8
	Dist. Average	468.2	648.7		Etawah	514.9	826.4
	Mathura	454.0	588.3		Etawah (Obsty.)	502.8	DNR
	Mathura (Obsty.)	DNR	DNR		Safai	181	DNR
	Chhata	282.4	605.1		Jaswant Nagar	266.6	DNR
	Moth	181.0	650.8		Bharthana	204	751.4
Mathura	Dist. Total	917.4	1844.2	Etawah	Dist. Total	1669.3	1577.8
	Dist. Average	305.9	614.5		Dist. Average	333.8	789.3
	Agra	333.3	710.3		Auraiya	135.7	785
	Agra (Obsty.)	DNR	723.8		Vidhuna	76.9	929.6
	Kirawali	469.2	DNR	Auraiya	Dist. Total	212.5	1614.6
	Khairagrah	392.5	795.5		Dist. Average	106.3	807.5
	Fatehabad	327.8	774.8		Kanpur	503.0	748.9
	Bah	314.4	767.9		Kanpur (Obsty.)	738.6	DNR
	Etmadpur	204.5	679.8		Bihaur	246.1	811.0
Agra	Dist. Total	2041.7	4452.1		Ghatampur	278.1	818.9
	Dist. Average	340.4	742.1	Kanpur	Dist. Total	1765.8	2378.8



Annexure VI.3

Annual Rainfall Table Recorded in Ramganga Command for the Year 2004 - in M.M

Division / Districts	Stations	Total Rainfall	Normal Rainfall	Division / Districts	Stations	Total Rainfall	Normal Rainfall
	Firozabad	507.3	708.1		Dist. Average	441.6	793.0
	Firozabad (Obsty.)	DNR	DNR		Kanpur Dehat	DNR	DNR
	Sikohabaad	526.1	708.3		Kanpur Dehat (Obsty.)	DNR	870.4
	Jasrana	366.7	710.4		Sikandara	282	DNR
	Tundla	DNR	DNR		Derapur	514.7	818.0
Firozabad	Dist. Total	1400.1	2126.8		Akbarpur	351.0	745.4
	Dist. Average	466.6	708.8		Bhognipur	425.0	836.9
	Mainpuri	629.9	740.5		Rasulabad	255.5	DNR
	Bhogaon	506.8	755.5	Kanpur Dehat	Dist. Total	1828.2	3275.0
	Karhal	561.6	745.5		Dist. Average	365.7	817.6
	Mainpuri (Obsty.)	640.4	732.2	<u>Allahabad</u>	Fatehpur	664.4	DNR
Mainpuri	Dist. Total	2338.7	2973.7		Fatehpur (Obsty.)	628.2	890.1
	Dist. Average	584.7	743.7		Bindki	593.7	DNR
	Etah	541.9	696.2		Khaga	915.5	1001.3
	Kasganj	494.0	761.3	Fatehpur	Dist. Total	2801.8	1891.4
	Aliganj	68.2	810.9		Dist. Average	707.8	946.1
	Jalesar	233.0	620.0		Manzhanpur	981.3	869.8
	Patiyali	388.0	DNR		Chayal	355.0	932.9
	Etah (Obsty.)	DNR	DNR		Sirathu	745.3	946.1
Etah	Dist. Total	1725.1	2888.4		Kaushambi	DNR	DNR
	Dist. Average	345.1	722.2	Kaushambi	Dist. Total	2081.6	2749.3
					Dist. Average	694	916.4

Contd.,



Annexure VI.3**Monthly Average Rainfall of the Ramganga Command Area for the Year of 2006 in MM**

Districts	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total
Aligarh	0.2	0.0	3.6	1.3	5.4	30.9	128.9	20.0	26.7	12.4	0.0	0.2	229.6
Hathras	0.0	0.0	0.0	0.0	36.5	42.1	189.6	37.8	22.3	0.0	0.0	0.0	328.3
Mathura	0.0	0.0	55.0	0.0	25.3	2.5	140.5	17.0	25.3	0.0	0.0	0.0	265.6
Agra	0.0	0.0	1.8	0.0	7.2	23.2	112.1	32.2	24.6	0.0	0.0	0.0	201.1
Firozabad	0.0	0.0	6.3	0.0	42.3	45.3	199.2	22.1	38.0	7.6	0.0	0.2	361.0
Mainpuri	0.0	0.0	12.0	0.0	4.8	61.3	354.8	90.6	63.4	69.6	0.0	0.0	656.5
Etah	0.0	0.0	3.2	0.0	15.2	62.6	185.0	61.5	63.5	5.7	0.0	0.0	396.7
Farrukhabad	0.0	0.0	4.2	1.5	23.2	73.8	289.0	60.5	61.0	6.4	0.0	0.0	519.6
Kannauj	0.0	0.0	0.0	0.0	5.0	89.4	194.7	14.5	38.7	0.0	0.0	0.0	342.3
Etawah	0.0	0.0	7.7	0.0	1.7	22.0	136.1	26.9	29.3	5.4	0.0	0.0	229.1
Auraiya	0.0	0.0	0.0	0.0	0.0	39.6	87.1	33.5	52.3	0.0	0.0	0.0	212.5
Kanpur	0.0	0.0	6.2	9.0	10.1	24.9	133.9	64.5	29.8	3.8	0.0	0.0	282.2
Kanpur Dehat	0.0	0.0	5.2	0.0	1.0	31.1	155.6	15.5	28.5	3.5	0.0	0.0	240.4
Fatehpur	0.0	0.0	2.8	1.5	0.0	31.4	196.8	79.3	28.4	16.5	8.7	0.0	365.4
Kaushambi	0.0	0.0	0.0	3.1	0.0	10.9	201.3	50.2	13.6	0.0	0.0	0.0	279.1



Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2000-04

District Name	Block Name	Hydrograph Station	Year-2000		Year-2001		Year-2002		Year-2003		Year-2004	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Agra	Achhanera	Achhanera					7.20	0.00				7.83
Agra	Achhanera	Achhanera Piezo					5.73	5.58	6.68		5.78	5.64
Agra	Achhanera	Biara					7.13	4.45	5.55	4.45	6.85	6.46
Agra	Achhanera	Kerawali					4.86	0.00	5.00	4.30	5.85	5.53
Agra	Achhanera	Ketham-1					0.00	0.00				
Agra	Achhanera	Ketham-2					7.35	4.20	7.20		6.60	6.30
Agra	Achhanera	Raibha					10.66	9.03	10.03	9.88		11.00
Agra	Achhanera	Sadham Piezo					0.00	0.00			7.20	6.68
Agra	Achhanera	Sadhan					8.95	6.60	7.30	6.20		5.40
Agra	Akola	Akola Piezo					0.00	0.00				14.85
Agra	Akola	Malpura-1					9.29	8.74	9.39	9.84	9.99	9.52
Agra	Bah	Batteshwar-2	0.00	0.00	0.00	0.00	7.96	7.13	8.78	9.21	0.00	6.75
Agra	Bah	Girandpura	0.00	0.00	0.00	0.00	26.29	26.01	0.00	27.90	28.30	
Agra	Bah	Holipura	27.35	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agra	Bah	Sannpura					31.21	30.95		31.14	31.79	
Agra	Barauli Ahir	Badh					11.48	12.30	12.38	12.85	13.10	11.85
Agra	Barauli Ahir	Kalarakalan					12.67	12.69				
Agra	Barauli Ahir	Kundol PZ					21.54	21.29				
Agra	Barauli Ahir	Bamrauli Katra					28.79	28.90	33.25	31.50	31.80	30.45
Agra	Barauli Ahir	Barauli Ahir					32.85	34.40		34.50	35.75	
Agra	Bichpuri	Agra (Bhogipura)	9.67	8.98	0.00	0.00	7.02	9.53	16.45	15.75	17.95	16.43
Agra	Bichpuri	Aziapur-2	9.62	8.97	0.00	0.00	6.84	9.48	13.83	14.45	16.93	15.90
Agra	Bichpuri	Bichpuri	9.57	8.95	0.00	0.00	10.61	10.31	10.75	10.65	11.85	11.43
Agra	Bichpuri	Khalaua-1	9.46	8.92	0.00	0.00	6.30	9.33	13.71	14.37	17.08	15.98
Agra	Bichpuri	Midhakur					11.15	9.41	9.81	9.51	11.01	9.04
Agra	Bichpuri	Naglabasua	9.52	8.94	0.00	0.00	6.48	9.38	13.75	14.40	17.03	15.95
Agra	Bichpuri	Runakta PZ					19.36	18.75	19.20	18.95	20.95	18.90
Agra	Fatehpur Sikri	Dabur					12.46	12.54	13.29	9.74	13.24	14.90
Agra	Fatehpur Sikri	Rasoolpur					8.94	6.31	6.71	6.01	7.46	8.19
Agra	Fatehpur Sikri	Singapur-2							5.15	4.05	6.04	7.32
Agra	Fatehpur Sikri	Singapur-1					9.42	7.10				



Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2000-04

District Name	Block Name	Hydrograph Station	Year-2000		Year-2001		Year-2002		Year-2003		Year-2004	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Agra	Fatehpur Sikri	Fathepur sikri					11.02	10.28	10.47	9.92	10.74	10.15
Agra	Jagner	Jagner	9.18	6.20	0.00	0.00	8.12	8.04	8.81	8.51	8.43	6.07
Agra	Jagner	Nauni	9.85	6.50	0.00	0.00	10.26	8.80	9.70	9.43	9.22	11.25
Agra	Jagner	Saraindhi Chauraha	9.75	7.05	0.00	0.00	10.63	10.53	10.87	11.27	11.09	12.46
Agra	Jagner	Tantpur-1	9.90	7.20	0.00	0.00	11.37	10.27				
Agra	Jaitpur Kalan	Mau	0.00	0.00	0.00	0.00	33.03	0.00	33.60	31.30	0.00	0.00
Agra	Jaitpur Kalan	Pathakpura	0.00	0.00	0.00	0.00	0.00	0.00	30.00	29.80	30.85	29.39
Agra	Jaitpur Kalan	Nandgaon-1	11.30	11.10	0.00	0.00	0.00	10.45	10.75	10.30	0.00	0.00
Agra	Jaitpur Kalan	Nandgaon-2	28.75	28.15	0.00	0.00	0.00	27.62	28.14	27.86	28.38	27.74
Agra	Jaitpur Kalan	Nhtauli	0.00	0.00	0.00	0.00	0.00	0.00	29.80	30.10	30.50	33.87
Agra	Khairagarh	Ayela ki Chauki					6.04	5.44	5.98	5.58	6.03	5.97
Agra	Khairagarh	Kagaraul					11.05	10.80	11.00	11.20	11.65	11.21
Agra	Khairagarh	Kolba					7.13	8.01	9.73	9.88	10.23	
Agra	Khairagarh	Naripura					8.74	8.82	11.27	10.57	11.02	9.15
Agra	Kandauli	Bas Mohansah	10.53	9.23	0.00	0.00	10.07	10.39	14.58	14.92	16.06	15.44
Agra	Kandauli	Khanda	10.48	9.23	0.00	0.00	9.89	10.34	14.54	14.90	16.11	15.47
Agra	Pinahat	Arnota-1	10.63	9.26	0.00	0.00	0.00	0.00	14.66	14.97	15.97	15.39
Agra	Pinahat	Arnota-2	10.58	9.25	0.00	0.00	0.00	0.00	14.62	14.95	16.01	15.42
Agra	Pinahat	Karkoli 1	10.53	9.23	0.00	0.00	10.07	10.39	14.58	14.92	16.06	15.44
Agra	Saiyan	Saiyan							10.42	10.17	10.32	9.93
Agra	Khandauli	Awala Khera	10.63	9.26	0.00	0.00	0.00	0.00	14.66	14.97	15.97	15.39
Agra	Khandauli	Awala Khera 2	10.58	9.25	0.00	0.00	0.00	0.00	14.62	14.95	16.01	15.42
Agra	Khandauli	Khandauli Piez	10.43	9.20	0.00	0.00	9.71	10.29	14.50	14.87	16.16	15.50
Agra	Khandauli	Tedhibagia	10.38	9.19	0.00	0.00	9.53	10.24	14.46	14.84	16.21	15.52
Agra	Khandauli	Jagdamba I.C	10.33	9.17	0.00	0.00	9.35	10.19	14.41	14.82	16.26	15.55
Agra	Khandauli	Challesar	10.28	9.16	0.00	0.00	9.17	10.14	14.37	14.79	16.30	15.57
Agra	Khandauli	Kuberpur	10.23	9.14	0.00	0.00	8.99	10.09	14.33	14.77	16.35	15.60
Agra	Khandauli	Sahadra	10.18	9.13	0.00	0.00	8.81	10.04	14.29	14.74	16.40	15.62
Agra	Shamshabad	Sadwara PZ	9.26	8.86	0.00	0.00	5.58	9.13	13.54	14.27	17.27	16.08
Agra	Shamshabad	Shamshabad O	9.21	8.85	0.00	0.00	5.40	9.08	13.50	14.24	17.32	16.10



Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2000-04

District Name	Block Name	Hydrograph Station	Year-2000		Year-2001		Year-2002		Year-2003		Year-2004	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Agra	Shamshabad	Shamshabad Piezo	9.16	8.83	0.00	0.00	5.22	9.03	13.46	14.22	17.37	16.13
Agra	Shamshabad	Kurra-Chitarpur	9.31	8.88	0.00	0.00	5.76	9.18	13.58	14.30	17.22	16.05
Agra	Shamshabad	Tiolla Piezo	6.11	8.82	0.00	0.00	5.04	8.98	13.41	14.19	17.41	16.15
Agra	Shamshabad	Kolarkalan	9.06	8.80	0.00	0.00	4.86	8.93	13.37	14.16	17.46	16.18
Agra	Shamshabad	Toolsashapur	10.12	9.11	0.00	0.00	0.00	0.00	14.25	14.71	16.45	15.65
Agra	Shamshabad	Inayatpur	10.07	9.10	0.00	0.00	0.00	0.00	14.21	14.69	16.50	15.67
Agra	Shamshabad	Lakurani	10.02	9.08	0.00	0.00	8.63	9.99	14.16	14.66	16.55	15.70
Agra	Shamshabad	Chandaura	9.97	9.07	0.00	0.00	8.45	9.94	14.12	14.63	16.59	15.72
Agra	Shamshabad	Kurra-Chitarpur-2	9.92	9.05	0.00	0.00	8.27	9.89	14.08	14.61	16.64	15.75
Agra	Bichpuri	Kalwari	9.36	8.89	0.00	0.00	5.94	9.23	13.62	14.32	17.17	16.03
Agra	Pinahat	Kenjara	10.48	9.22	0.00	0.00	9.89	10.34	14.54	14.90	16.11	15.47
Agra	Pinahat	Pinahat	10.43	9.20			9.71	10.29	14.50	14.87	16.16	15.50
Agra	Pinahat	Umretha 1	10.38	9.19			9.53	10.24	14.46	14.84	16.21	15.52
Agra	Pinahat	Umretha 2	10.33	9.17			9.35	10.19	14.41	14.82	16.26	15.55
Agra	Pinahat	Pinahat 2	10.28	9.15			9.17	10.14	14.37	14.79	16.30	15.57
Agra	Pinahat	Bich ka pura	10.23	9.14			8.99	10.09	14.33	14.77	16.35	15.60
Agra	Pinahat	Mahgoli	10.18	9.13			8.81	10.04	14.29	14.74	16.40	15.62
Agra	Pinahat	Chachia	10.12	9.11			8.63	9.99	14.25	14.71	16.45	15.65
Agra	Pinahat	Pundrik Kapra	10.07	9.10			8.45	9.94	14.21	14.69	16.50	15.67
Agra	Pinahat	Ladaupura	10.02	9.08			8.27	9.89	14.16	14.66	16.55	15.70
Agra	Pinahat	Manik Pura	9.97	9.07			8.09	9.84	14.12	14.63	16.59	15.72
Agra	Pinahat	Ratoti	9.92	9.05			7.91	9.79	14.08	14.61	16.64	15.75
Agra	Pinahat	Kankarakhera	9.87	9.04			7.73	9.74	14.04	14.58	16.69	15.77
Agra	Pinahat	Gadiya	9.82	9.03			7.56	9.69	14.00	14.56	16.74	15.80
Agra	Pinahat	Gajora	9.77	9.01			7.38	9.64	13.96	14.53	16.79	15.82
Agra	Pinahat	Kukathari	9.72	9.00			7.20	9.59	13.91	14.50	16.84	15.85
Agra	Khairgarh	Kolba	6.10	5.10			6.04	5.44	5.98	5.58	6.03	5.97
Agra	Khairgarh	Nagla Pantu	14.30	12.10			11.05	10.80	11.00	11.20	11.65	11.21
Agra	Khairgarh	Kagaraul 2	6.55	4.05			7.13	8.01	9.73	9.88	10.23	0.00
Agra	Khairgarh	Bholpur	9.20	7.45			8.47	8.82	11.27	10.57	11.02	9.15
Aligarh	Akrabad	Akrabad Piezo	2.70	1.90	0.00	0.00	3.71	1.85	3.95	2.20	4.10	1.51
Aligarh	Akrabad	Bamnoi	0.00	0.00	0.00	0.00	3.07	1.40	4.00	1.15	3.00	0.00



Block wise Water Level Data in Ramganga Command Area Year 2000-04

District Name	Block Name	Hydrograph Station	Year-2000		Year-2001		Year-2002		Year-2003		Year-2004	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Aligarh	Akrabad	Gopi	5.15	4.25	0.00	0.00	6.27	5.55	6.00	3.80	5.45	0.00
Aligarh	Akrabad	Pilkhana	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.39	1.04
Aligarh	Akrabad	Shahgarh	7.60	6.80	0.00	0.00	8.32	8.00	8.10	7.40	7.80	7.40
Aligarh	Chandos	Chandos	0.00	0.00	0.00	0.00	9.10	8.93	9.20	8.25	9.35	8.40
Aligarh	Chandos	Gabhana-PZ	0.00	0.00	0.00	0.00	6.34	5.12	5.90	2.75	5.05	4.30
Aligarh	Chandos	Dhauraumor	8.45	7.35	0.00	0.00	8.92	7.65	0.00	0.00	7.95	5.75
Aligarh	Chandos	Pisawan PZ	12.40	10.30	0.00	0.00	12.45	11.85	12.78	11.40	12.05	8.00
Aligarh	Dhanipur	Akhalana-2 PZ	6.20	4.80	0.00	0.00	6.40	5.50	6.80	5.15	6.40	5.60
Aligarh	Dhanipur	Ali Nagar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aligarh	Dhanipur	Dhanipur - 1 PZ	13.10	12.75	0.00	0.00	13.07	0.00	13.90	13.04	13.60	13.68
Aligarh	Dhanipur	Esanpur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aligarh	Dhanipur	Harduaganj	3.65	1.90	0.00	0.00	3.57	1.50	3.53	1.75	3.65	2.20
Aligarh	Dhanipur	Panethi	4.50	3.45	0.00	0.00	0.00	0.00	6.78	3.90	5.88	4.98
Aligarh	Dhanipur	Rohini	3.55	2.25	0.00	0.00	4.77	2.65	4.50	2.55	4.55	1.87
Aligarh	Dhanipur	Shekha	2.40	1.30	0.00	0.00	4.02	0.60	2.20	0.60	2.10	0.65
Aligarh	Gonda	Gahlau	3.85	3.10	0.00	0.00	0.00	0.00	4.40	1.91	3.91	2.15
Aligarh	Gonda	Gonda	3.65	1.58	0.00	0.00	4.75	4.24	4.75	2.35	4.35	2.80
Aligarh	Gonda	Guruji Ki Nagar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aligarh	Gonda	Nagla Birkhoo	2.50	1.45	0.00	0.00	2.95	1.20	2.90	1.50	4.12	2.20
Aligarh	Jawa Sikandrapur	Barauli	4.25	1.50	0.00	0.00	3.20	2.05	3.10	0.95	3.30	1.10
Aligarh	Jawa Sikandrapur	Jawan	2.24	1.04	0.00	0.00	2.16	1.39	2.19	0.94	1.99	1.69
Aligarh	Jawa Sikandrapur	Sudhiyal - 2	8.10	6.60	0.00	0.00	9.40	9.20	10.57	9.15	9.40	9.70
Aligarh	Lodha	Ahmadpur -1	0.00	0.00	0.00	0.00	14.29	14.10	0.00	0.00	14.50	14.13
Aligarh	Lodha	Bhankari PZ	15.34	15.30	0.00	0.00	15.88	15.70	0.00	0.00	16.40	15.35
Aligarh	Lodha	Bhimpur Piezo	15.65	14.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.40
Aligarh	Lodha	Bhokarwali	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aligarh	Lodha	Lodha Block PZ	18.18	17.50	0.00	0.00	18.05	17.90	1.43	17.55	17.70	1.65
Aligarh	Lodha	Lodha Thana PZ	0.00	13.70	0.00	0.00	14.13	13.30	14.10	13.50	14.00	13.50
Aligarh	Lodha	Madrak Piezo	0.00	0.00	0.00	0.00	16.89	16.37	17.22	16.65	17.05	16.20
Aligarh	Lodha	Mukundpur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2000-04

District Name	Block Name	Hydrograph Station	Year-2000		Year-2001		Year-2002		Year-2003		Year-2004	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Aligarh	Lodha	Nada Wajidpur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aligarh	Lodha	Pijari	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aligarh	Tappal	Bharatpur	4.00	3.08	0.00	0.00	6.00	5.10	5.88	4.05	5.06	4.50
Aligarh	Tappal	Tappal-1	7.50	5.92	0.00	0.00	9.60	9.19	10.61	8.72	9.50	9.15
Aligarh	Iglas	Beswan-1	14.00	12.92	0.00	0.00	14.55	14.60	13.77	11.15	12.70	11.70
Aligarh	Iglas	Hastpur Piezo	10.05	9.65	0.00	0.00	11.15	11.05	12.00	10.20	11.10	9.22
Aligarh	Iglas	Iglas OW	0.00	3.95	0.00	0.00	0.00	0.00	6.75	0.00	4.90	4.30
Aligarh	Iglas	Iglas Piezo	4.10	3.00	0.00	0.00	6.05	5.35	6.85	2.90	5.00	4.18
Aligarh	Iglas	Kala Aam PZ	12.70	11.63	0.00	0.00	12.98	12.00	13.25	13.15	12.85	12.45
Aligarh	Iglas	Kalinzari	0.00	0.00	0.00	0.00	8.37	6.95	7.89	6.28	4.90	5.05
Aligarh	Iglas	Tochhigarh - 1	5.50	4.40	0.00	0.00	5.30	2.45	5.57	2.45	4.45	2.95
Auraiya	Achhalda	Achhalda	3.15	1.15	3.85	1.95	2.25	1.42	3.50	1.50	2.25	1.42
Auraiya	Achhalda	Neoliganj	4.86	3.65	5.18	3.90	5.52	3.42	5.95	3.65	5.52	3.42
Auraiya	Achhalda	Sainpura	3.90	2.13	4.60	1.50	2.81	2.15	3.45	2.50	2.81	2.15
Auraiya	Airwankatara	Airwankatara	4.15	3.20	5.30	3.55	4.21	4.03	4.33	2.55	4.21	4.03
Auraiya	Airwankatara	Baibhah	3.85	2.10	4.60	1.70	3.16	2.22	0.00	0.00	3.16	2.22
Auraiya	Airwankatara	Gulalpura	4.05	3.10	5.00	3.75	4.06	3.25	4.55	2.55	4.85	3.25
Auraiya	Airwankatara	Rathgaon	6.50	5.60	6.90	6.00	7.81	5.67	8.00	6.65	7.81	5.07
Auraiya	Ajeetmal	Anantram	9.37	8.19	9.25	7.86	8.54	7.44	9.02	8.14	8.76	8.59
Auraiya	Ajeetmal	Ajeetmal	10.05	8.60	10.52	8.85	10.50	0.00	11.82	9.45	11.25	10.10
Auraiya	Ajeetmal	Ballapur	9.15	7.55	9.90	7.92	9.45	8.35	9.50	7.31	8.70	8.51
Auraiya	Ajeetmal	Jagatpur	2.52	2.22	2.95	1.38	2.35	1.60	2.98	2.65	2.96	1.15
Auraiya	Bidhuna	Bela	4.35	2.90	4.55	2.85	4.90	2.65	4.98	2.40	5.08	2.62
Auraiya	Bidhuna	Bhagwanpur	4.35	2.58	4.38	2.70	4.42	2.30	4.85	0.00	4.05	1.68
Auraiya	Bidhuna	Bidhuna	7.57	7.10	7.95	6.85	8.00	7.87	9.05	7.45	8.05	7.91
Auraiya	Sahar	Awawar Sarai	6.10	3.90	6.69	3.59	0.00	5.30	7.65	2.85	5.79	3.50
Auraiya	Sahar	Dinwamau	6.65	5.50	7.53	6.74	0.00	6.35	7.85	5.80	6.30	5.22
Auraiya	Sahar	Sahar	3.40	2.10	3.50	1.71	3.80	1.62	4.92	1.35	3.58	1.17
Etah	Aliganj	Pahra-2	6.21	5.00	0.00	0.00	0.00	3.95	6.15	5.00	6.60	4.65
Etah	Awagarh	Awagarh	5.85	5.22	0.00	0.00	4.30	4.50	6.90	5.97	6.52	6.35
Etah	Awagarh	Nooh Khera	3.55	2.65	0.00	0.00	3.90	2.50	0.00	2.15	0.00	1.79
Etah	Awagarh	Punhera	4.21	2.86	0.00	0.00	5.00	2.45	3.41	2.30	3.92	1.97
Etah	Awagarh	Sakara	3.21	2.00	0.00	0.00	4.30	3.25	4.98	2.52	4.67	2.42



Block wise Water Level Data in Ramganga Command Area Year 2000-04

District Name	Block Name	Hydrograph Station	Year-2000		Year-2001		Year-2002		Year-2003		Year-2004	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Etah	Awagarh	Sikrari	4.93	4.14	0.00	0.00	6.10	4.50	7.15	5.85	6.10	5.18
Etah	Jaithara	Bhalol-1	6.00	5.15	0.00	0.00	0.00	0.00	5.07	1.72	3.94	3.19
Etah	Jaithara	Dhumari-2	0.00	0.00	0.00	0.00	0.00	0.00	2.88	1.35	2.70	2.42
Etah	Jaithara	Jaithara-2	0.00	0.00	0.00	0.00	5.56	2.70	5.68	1.48	3.84	3.48
Etah	Nidholikalan	Gadanpur	5.10	3.96	0.00	0.00	6.15	4.10	7.71	4.15	7.10	3.19
Etah	Nidholikalan	Jitoli Piezo	5.16	4.75	0.00	0.00	5.50	4.15	5.70	4.10	5.50	4.43
Etah	Nidholikalan	Nidholi Kalan P	6.25	3.88	0.00	0.00	6.80	6.18	6.48	5.53	6.38	6.20
Etah	Nidholikalan	Vasundhara	0.00	0.00	0.00	0.00	0.00	9.17	9.50	8.97	9.35	8.49
Etah	Sheetalpur	Jeesakpur	6.71	5.98	0.00	0.00	5.90	3.79	6.21	2.67	5.42	4.12
Etah	Sheetalpur	Kakruali Piezo	8.50	6.77	0.00	0.00	0.00	0.00	5.90	3.85	5.10	5.00
Etah	Sheetalpur	Lalgrahi Piezo	9.55	8.60	0.00	0.00	10.18	9.80	10.13	8.45	8.90	8.82
Etah	Sheetalpur	Nagla Jagroop	8.70	7.56	0.00	0.00	10.21	9.74	10.49	8.04	9.14	8.95
Etah	Sheetalpur	On Ghat	6.07	4.60	0.00	0.00	3.05	2.93	4.00	3.50	3.90	2.48
Etah	Sheetalpur	Pahara - 1	4.95	4.13	0.00	0.00	4.45	4.11	6.43	4.35	5.76	4.10
Etawah	Barhpura	Barhpura Thana	29.20	29.10	29.30	29.05	29.12	29.00	29.35	29.15	27.74	27.01
Etawah	Barhpura	Chhotegati	26.55	26.45	26.85	26.50	26.63	26.50	27.15	26.65	26.73	26.20
Etawah	Barhpura	Ekdil	9.02	7.11	8.65	7.11	8.00	7.95	8.10	5.80	7.50	6.25
Etawah	Barhpura	Etawah Yamuna Pul	0.00	0.00	16.25	15.95	16.35	16.05	16.15	15.75	16.12	15.70
Etawah	Barhpura	Etawah Yamuna Road	0.00	0.00	9.35	8.00	9.32	8.15	8.75	8.35	9.40	8.24
Etawah	Barhpura	Kori Kuwan	35.05	33.00	35.15	34.10	34.95	34.20	34.95	34.08	35.15	34.85
Etawah	Barhpura	Naglagaur	23.60	23.30	23.15	23.40	0.00	23.40	23.75	23.45	23.95	23.55
Etawah	Barhpura	Ude Gaon	33.85	33.55	33.85	33.50	33.83	33.65	36.30	36.00	37.20	37.05
Etawah	Bharthana	Bharthana	4.75	3.05	6.10	4.76	5.15	4.65	5.85	3.25	6.05	4.72
Etawah	Bharthana	Chandrapura	2.80	1.40	3.27	1.60	2.85	1.65	2.92	1.70	3.10	1.20
Etawah	Bharthana	Moodhi	7.17	6.47	8.20	7.60	8.15	7.15	10.37	8.25	8.61	8.35
Etawah	Bharthana	Umarsenda	3.30	2.05	3.52	1.85	2.85	1.77	3.95	2.85	3.22	1.07
Etawah	Chakarnagar	Kasauhar-1	0.00	0.00	34.90	34.46	36.68	34.85	37.55	35.65	35.90	34.53
Etawah	Chakarnagar	Kthori Ka Nagla	37.20	36.65	36.57	36.27	36.90	35.99	37.98	35.87	36.89	36.72
Etawah	Jaswant Nagar	Chaksalempur	4.00	3.10	4.15	2.50	3.90	3.05	4.36	2.85	4.35	2.80
Etawah	Jaswant Nagar	Hinna	3.30	2.37	4.15	1.25	3.82	2.57	4.72	1.85	4.43	2.33
Etawah	Jaswant Nagar	Jaswant Nagar	9.05	8.65	1.20	9.00	10.70	9.80	11.96	9.15	9.63	8.65



Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2000-04

District Name	Block Name	Hydrograph Station	Year-2000		Year-2001		Year-2002		Year-2003		Year-2004	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Etawah	Jaswant Nagar	Kachaura Ghat	6.55	6.08	7.20	6.00	7.48	6.45	7.20	5.15	6.66	5.65
Etawah	Mahewa	Bakewar	4.70	3.45	5.94	3.67	5.55	5.00	6.56	5.00	6.47	8.63
Etawah	Mahewa	Ekdil	7.60	7.15	8.60	7.07	8.50	7.35	7.95	5.95	7.42	6.52
Etawah	Mahewa	Lakhna	3.45	2.30	4.07	3.57	4.05	1.90	3.36	1.60	2.25	1.00
Etawah	Mahewa	Mahewa	3.78	2.60	4.18	2.18	3.86	3.13	4.56	3.08	4.58	25.62
Etawah	Mahewa	Sabdulpur	0.00	23.87	24.72	23.91	24.90	24.75	24.50	24.80	25.93	7.27
Etawah	Mahewa	Saray Jalal	5.35	3.33	6.70	5.60	6.25	5.00	7.55	6.05	8.60	2.20
Farrukhabad	Kaimganj	Arjun Nagla	3.17	1.82	2.77	2.23	2.60	2.20	2.78	1.00	3.40	6.12
Farrukhabad	Kaimganj	Kampil OW	7.10	6.00	7.60	7.00	7.95	6.12	8.31	4.60	7.05	7.00
Farrukhabad	Kaimganj	Rudayan	7.90	4.90	5.20	3.70	7.05	7.00	7.45	6.00	7.65	1.20
Farrukhabad	Kaimganj	Sammudeenpur	2.80	1.92	3.11	2.02	2.20	1.05	2.30	1.35	2.25	1.20
Farrukhabad	Kamalganj	Jarari	14.00	13.12	13.70	13.40	14.20	13.40	15.20	13.40	14.10	12.50
Farrukhabad	Kamalganj	Sringirampur	16.13	12.78	13.93	13.53	14.68	13.08	14.70	12.47	13.43	12.53
Farrukhabad	Mohamad abad	Madnapur	12.90	12.00	13.35	13.00	13.92	12.55	14.60	11.05	13.93	12.55
Farrukhabad	Nawabganj	Chanduia	4.25	3.10	4.10	3.70	4.45	3.32	4.00	3.75	4.44	3.24
Farrukhabad	Shamsabad	Roshnabad	8.67	6.50	7.20	6.05	6.65	5.90	0.00	0.00	8.00	6.35
Fatehpur	Amauli	Amauli	10.60									
Fatehpur	Amauli	Ranupur-1	10.60	9.50	11.95	10.70	13.00	12.49	15.90	9.67	13.15	11.25
Fatehpur	Asothar	Asothar II	4.36	2.68	4.31	3.08	4.40	3.13	4.56	2.68	4.87	4.42
Fatehpur	Asothar	Tikri	2.65	1.47	2.42	2.07	2.56	1.83	5.50	3.12	4.07	2.48
Fatehpur	Deomai	Bakevar									3.93	
Fatehpur	Deomai	Kashmiri	2.60	1.70	2.40	1.20	2.70	1.60	2.20	1.22	2.30	1.05
Fatehpur	Deomai	Musafa	6.83	5.15	6.25	3.55	5.33	4.30	6.45	3.35	6.30	5.25
Fatehpur	Dhata	Dhata-2					6.92	6.07	7.20	6.81	7.46	4.78
Fatehpur	Hathgaon	Saryn	5.75	4.05	5.30	4.10	3.66	3.59	4.75	3.35	5.48	4.19
Fatehpur	Khajuha	Kirti Khera	11.91	6.56	12.16	9.66	12.70	10.61	13.71	10.83	12.40	12.44
Fatehpur	Khajuha	Lalpur-2					12.78	10.15	12.60	9.35	12.50	9.93
Fatehpur	Khajuha	Zafargunj	17.76	15.78	16.76	15.46	18.21	16.01	18.41	17.76	18.21	17.60
Fatehpur	Malawan	Aung	19.98	19.73	20.89	19.29	21.00	20.68	21.58	20.16	21.55	20.72
Fatehpur	Malawan	Malwan-2					5.80	5.05	5.42	2.29	4.05	2.88
Fatehpur	Malawan	Mauhar							9.62	7.81	8.71	7.65
Fatehpur	Malawan	Sheorajpur	10.42	9.40	10.41	9.07	10.17	9.25	10.73	7.61	9.53	9.14
Fatehpur	Malawan	Tenduli	8.23	7.93	8.21	7.33	8.74	8.58	10.90	7.82	8.60	8.35



Block wise Water Level Data in Ramganga Command Area Year 2000-04

District Name	Block Name	Hydrograph Station	Year-2000		Year-2001		Year-2002		Year-2003		Year-2004	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Firozabad	Eka	Mustafabad	6.00	4.97	0.00	0.00	6.64	6.19	6.87	4.95	0.00	5.54
Firozabad	Eka	Pendat	3.40	2.32	0.00	0.00	0.00	0.00	0.00	2.45	0.00	2.39
Firozabad	Eka	Pilakhtra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.75	6.59
Firozabad	Madnapur	Madanpur	6.49	4.55	0.00	0.00	6.22	5.90	7.11	5.70	6.98	6.00
Firozabad	Madnapur	Urawar-2	0.00	0.00	0.00	0.00	0.00	12.25	13.70	11.54	13.40	13.50
Hathras	Hassayan	Mohanpur	4.00	2.50	0.00	0.00	0.00	0.00	3.65	0.95	3.20	1.40
Hathras	Hassayan	Purdilpur	2.75	1.90	0.00	0.00	4.90	3.25	5.22	4.50	0.00	3.00
Hathras	Hathras	Hathras Iti Roa	0.00	0.00	0.00	0.00	0.00	13.22	13.65	12.70	12.88	0.00
Hathras	Hathras	Hathras JN	0.00	0.00	0.00	0.00	0.00	11.20	11.70	10.85	11.10	0.00
Hathras	Hathras	Hathras Jalesar	0.00	0.00	0.00	0.00	0.00	14.70	15.45	0.00	0.00	0.00
Hathras	Hathras	Ladpur	0.00	0.00	0.00	0.00	6.67	7.90	0.00	0.00	10.80	7.15
Hathras	Hathras	Maho	5.70	5.05	0.00	0.00	0.00	0.00	7.95	4.91	5.40	5.15
Hathras	Mursan	Chandapa PZ	11.50	10.63	0.00	0.00	14.39	12.30	14.86	15.05	14.95	15.08
Hathras	Mursan	Dyalpur	0.00	0.00	0.00	0.00	12.35	12.10	12.79	11.45	0.00	0.00
Hathras	Mursan	Hatisha	13.20	12.15	0.00	0.00	0.00	0.00	11.73	10.70	0.00	11.00
Hathras	Mursan	Mursan - PZ	10.90	10.43	0.00	0.00	11.01	11.00	11.48	10.90	11.35	11.01
Hathras	Mursan	Mursan - OW	9.85	8.78	0.00	0.00	0.00	0.00	0.00	9.20	10.05	9.73
Hathras	Mursan	Tuksan	0.00	0.00	0.00	0.00	6.55	5.92	6.93	4.03	0.00	4.97
Kannauj	Chhibramau	Bhojpur	6.95	6.90	8.10	7.15	8.58	8.00	8.95	8.05	8.65	7.75
Kannauj	Chhibramau	Chhibramau	0.00	10.81	12.20	11.38	12.60	12.50	14.00	10.00	0.00	11.20
Kannauj	Chhibramau	Dalupur	8.55	7.80	9.65	9.30	10.35	0.00	10.12	8.35	9.10	8.00
Kannauj	Chhibramau	Karmullapur-2	18.06	16.50	17.45	17.00	18.10	0.00	18.22	17.78	18.00	17.00
Kannauj	Chhibramau	Randheerpur Piez	0.00	0.00	0.00	0.00	11.15	11.12	12.00	10.00	0.00	0.00
Kannauj	Haseren	Gahpura	5.80	5.60	5.85	5.75	0.00	5.80	6.07	5.60	6.15	5.50
Kannauj	Haseren	Haseeren	3.58	3.30	3.60	3.47	3.70	3.55	3.92	3.30	3.95	3.75
Kannauj	Jalalabad	Gorayapur	15.90	15.86	16.10	16.07	17.12	16.60	17.62	15.25	17.05	16.25
Kannauj	Jalalabad	Jalalabad Piezo	17.85	16.95	18.05	17.65	18.15	17.80	18.50	16.95	17.40	16.80
Kannauj	Jalalabad	Jewa Piezo	17.30	16.97	17.78	17.48	18.10	17.82	18.00	17.25	0.00	17.30
Kannauj	Jalalabad	Kolhapur	12.81	12.75	13.40	13.10	13.85	13.12	13.65	0.00	13.75	12.65
Kannauj	Saurikh	Bhulpur	9.20	8.90	9.20	9.10	9.32	9.20	9.50	8.95	9.51	9.45
Kannauj	Saurikh	Kandhai Ka Nagl	2.64	2.40	2.60	2.47	2.68	2.50	2.82	2.40	2.82	2.10
Kannauj	Saurikh	Khirney	3.50	1.90	0.00	1.55	0.00	1.60	1.92	1.31	1.90	1.95



Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2000-04

District Name	Block Name	Hydrograph Station	Year-2000		Year-2001		Year-2002		Year-2003		Year-2004	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Kannauj	Saurikh	Kirrana	0.00	0.00	1.60	1.48	1.68	1.55	1.91	1.60	2.08	1.80
Kannauj	Saurikh	Kisae	9.05	8.78	8.93	8.83	9.03	8.93	9.20	8.68	9.18	8.68
Kannauj	Saurikh	Pat gadiya	9.05	8.80	9.10	9.01	9.25	9.05	9.37	8.59	9.35	8.15
Kannauj	Saurikh	Saurikh	5.00	4.95	5.95	5.82	6.07	5.90	6.23	5.20	6.05	5.10.
Kannauj	Talgram	Muradganj-2	16.10	15.75	16.60	16.46	17.30	17.10	17.80	17.29	18.40	16.90
Kannauj	Talgram	Shayamnagar	7.04	6.68	8.50	7.65	8.75	7.20	8.75	6.90	0.00	6.65
Kannauj	Umarda	A Gaus	3.40	3.15	3.30	3.20	3.41	3.25	3.56	2.45	3.05	2.90
Kannauj	Umarda	Khari Nagar-1	6.80	6.60	6.90	6.77	7.00	6.82	7.22	5.20	5.70	5.20
Kannauj	Umarda	Tirwa	5.75	5.50	6.50	6.40	7.00	6.85	7.88	6.50	6.90	6.27
Kannauj	Gugarapur	Naurangpur	0.00	8.15	0.00	8.30	10.20	9.60	10.32	8.75	9.20	8.80
Kannauj	Gugarapur	Saryan Baramau	0.00	11.45	11.95	10.95	12.40	11.92	12.48	10.95	12.02	11.30
Kanpur Dehat	Amarudha	Bhognipur	16.90	15.50	18.95	15.15	21.30	19.15	20.20	18.42	19.25	17.30
Kanpur Dehat	Amarudha	Moosangar	22.05	20.75	22.60	21.19	23.90	22.60	23.42	22.17	22.95	22.62
Kanpur Dehat	Amarudha	Pirpigaon	19.90	17.30	18.70	17.60	20.30	19.58	20.20	19.42	20.55	19.80
Kanpur Dehat	Derapur	Chilauli	10.10	8.35	9.45	8.47	9.04	8.58	9.40	8.40	10.80	8.30
Kanpur Dehat	Derapur	Derapur	10.51	10.11	11.75	10.65	13.53	12.35	13.00	103.00	11.75	11.20
Kanpur Dehat	Maitha	Asai Anupur	0.00	0.00	5.80	5.25	7.01	0.00	6.60	4.15	5.45	4.70
Kanpur Dehat	Maitha	Aurangabad	0.00	0.00	2.71	2.23	3.25	2.62	3.50	1.91	2.28	2.13
Kanpur Dehat	Maitha	Beri Baghpur	3.10	1.95	2.85	1.70	5.56	4.67	5.70	2.00	3.65	2.25
Kanpur Dehat	Maitha	Devipur	5.00	4.45	6.80	4.90	5.80	5.92	6.42	4.75	6.00	5.10
Kanpur Dehat	Maitha	Maitha	4.87	2.47	2.87	2.92	5.13	4.61	5.27	2.77	3.42	3.02
Kanpur Dehat	Maitha	Pratap Pur	0.00	0.00	5.20	4.55	5.96	5.87	6.88	4.15	5.50	4.60
Kanpur Dehat	Maitha	Saitwanpur	2.50	2.15	3.20	2.55	3.34	1.55	4.12	1.61	3.40	1.50
Kanpur Dehat	Maitha	Shivli	3.70	2.35	6.00	5.00	5.19	3.99	4.50	3.30	5.45	3.70
Kanpur Dehat	Malasa	Deendh	10.30	9.95	11.80	10.80	12.10	9.65	11.78	10.70	11.50	10.70
Kanpur Dehat	Malasa	Malasa	16.80	15.90	18.20	16.60	17.40	16.65	16.75	15.87	17.35	16.20
Kanpur Dehat	Malasa	Saidalipur	10.95	9.40	10.35	9.10	10.77	9.48	11.85	10.72	12.00	10.80
Kanpur Dehat	Rajpur	Jallapur	15.17	14.55	16.57	14.57	17.32	16.39	17.87	16.32	16.07	16.06
Kanpur Dehat	Rajpur	Khojaphool	6.60	6.15	8.30	6.60	8.39	7.11	8.38	5.09	6.85	5.74



Block wise Water Level Data in Ramganga Command Area Year 2000-04

District Name	Block Name	Hydrograph Station	Year-2000		Year-2001		Year-2002		Year-2003		Year-2004	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Kanpur Dehat	Rajpur	Rasdhan	6.42	5.52	6.42	5.37	8.12	7.92	8.21	7.32	8.67	7.52
Kanpur Dehat	Rajpur	Sikandra-1	7.56	3.10	8.70	5.50	8.20	4.65	5.08	4.07	6.29	4.25
Kanpur Dehat	Sandalpur	Araji Bichhiyap	7.30	6.55	7.65	6.45	8.89	6.70	7.35	6.96	8.15	7.55
Kanpur Dehat	Sandalpur	Bharawal	11.45	10.88	12.13	10.83	12.23	10.13	12.15	11.68	12.75	11.88
Kanpur Nagar	Bhitargoan	Kundhni	7.05	5.51	7.59	6.84	7.45	6.87	8.59	5.64	7.35	7.02
Kanpur Nagar	Bhitargoan	Sadh	2.37	2.34	2.57	1.09	2.46	0.98	3.53	0.89	3.13	0.12
Kanpur Nagar	Billhaur	Billhaur-2	9.14	8.69	9.90	8.13	9.20	8.10	10.41	1.80	8.60	7.20
Kanpur Nagar	Billhaur	Makunpur	9.89	8.01	9.18	8.85	9.63	9.29	10.87	7.57	9.02	8.96
Kanpur Nagar	Billhaur	Saibasau OW	13.23	12.62	13.00	12.38	13.30	13.23	14.12	13.13	13.10	12.60
Kanpur Nagar	Billhaur	Uttaripur OW	0.00	0.00	3.85	1.26	3.40	1.58	4.10	1.48	3.15	1.23
Kanpur Nagar	Chaubepur	Chaubepur-1	11.80	7.45	10.80	8.90	10.50	0.00	11.05	8.95	9.90	9.45
Kanpur Nagar	Shivrajpur	Bhasau Piezo	6.55	0.00	5.61	11.32	6.15	5.52	6.45	4.42	5.35	4.27
Kanpur Nagar	Shivrajpur	Biramaui	5.95	4.60	6.55	6.48	7.96	6.58	8.41	5.86	7.15	6.05
Kanpur Nagar	Shivrajpur	Dilipnagar	6.40	5.40	6.57	5.88	0.00	5.48	7.35	5.83	7.80	6.50
Kanpur Nagar	Shivrajpur	Shivrajpur	5.65	3.15	7.07	5.63	7.75	5.09	1.85	4.75	2.10	5.25
Kanpur Nagar	Kalyanpur	Kalyanpur	6.15	0.00	5.75	5.60	7.62	6.70	8.10	5.00	6.95	6.26
Kanpur Nagar	Kalyanpur	Madhana	8.29	7.88	0.00	7.52	9.15	9.28	10.02	8.31	7.00	8.41
Kanpur Nagar	Kalyanpur	Panki	7.53	7.12	7.43	7.30	8.18	8.00	9.05	6.05	7.50	6.38
Kanpur Nagar	Kalyanpur	Rooppur	11.71	0.00	11.45	11.30	0.00	11.95	12.92	11.03	12.55	11.75
Kanpur Nagar	Kalyanpur	Tikkanpurwa	10.31	0.00	10.17	10.06	0.00	10.04	11.59	9.01	10.50	9.40
Kanpur Nagar	Kalyanpur	Vakunthpur	4.95	3.83	0.00	3.33	0.00	5.10	5.60	3.70	4.55	0.00
Kanpur Nagar	Kakaban	Kakaban	2.85	1.98	2.20	1.90	8.64	8.94	3.85	3.18	0.00	2.15
Kanpur Nagar	Kakaban	Lodhan purwa	5.46	3.75	4.73	4.53	5.39	0.00	5.53	5.34	0.00	3.13
Kanpur Nagar	Kakaban	Tista	5.02	4.45	5.00	3.70	5.70	0.00	5.50	5.20	5.35	4.90
Kanpur Nagar	Ghatampur	Gajaila	8.15	7.53	8.30	7.60	8.80	7.96	9.25	8.45	8.50	7.00
Kanpur Nagar	Ghatampur	Ghatampur	16.75	14.85	17.85	15.35	18.60	17.15	0.00	12.00	19.65	17.41

Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2000-04

District Name	Block Name	Hydrograph Station	Year-2000		Year-2001		Year-2002		Year-2003		Year-2004	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Kanpur Nagar	Ghatampur	Rampur	16.90	0.00	17.85	16.70	0.00	17.10	19.25	17.00	18.85	17.10
Kanpur Nagar	Patara	Patara	6.30	5.02	6.28	5.88	7.01	0.00	8.31	5.48	6.83	5.55
Kanpur Nagar	Patara	Ram Sari	7.14	6.20	8.03	6.78	0.00	0.00	0.00	0.00	6.35	6.05
Kaushambi	Kara	Dorma	9.96	5.45	8.00	6.82	7.45	5.58	6.94	4.65	7.40	3.00
Kaushambi	Kara	Kara	12.35	10.15	12.15	11.50	12.40	13.40	14.35	12.70	13.90	12.65
Kaushambi	Kara	Lehdari	16.95	14.70	16.24	15.35	15.95	15.75	16.75	14.65	16.15	14.75
Kaushambi	Kara	Sewrai bujurg	13.90	13.00	14.60	13.45	15.15	14.58	16.20	13.65	15.50	14.30
Kaushambi	Kara	Shahjadapur	12.30	12.00	14.85	13.32	14.36	14.40	15.55	13.50	15.10	13.70
Kaushambi	Kara	Tanda	6.85	4.95	8.15	5.60	9.00	8.80	9.95	6.35	8.95	6.85
Kaushambi	Nevada	Baniram Katra	8.83	7.10	9.43	7.72	9.12	9.15	10.60	9.80	10.85	10.40
Kaushambi	Nevada	Nevada	15.72	15.17	16.37	13.96	16.36	18.00	18.95	17.20	19.05	18.50
Kaushambi	Nevada	Purkhash	9.63	9.20	10.17	5.15	8.40	9.00	10.23	10.05	10.47	11.20
Kaushambi	Nevada	Sarai Akil	8.75	5.40	9.72	3.82	8.40	9.60	11.30	7.90	10.90	7.20
Kaushambi	Nevada	Sewathan							19.57	18.45	19.75	19.45
Kaushambi	Sarasawan	Ajarauli	5.36	3.05	5.44	3.94	5.50	2.84	5.59	2.29	5.49	2.34
Kaushambi	Sarasawan	Banikhas	6.40	4.55	7.40	4.70	7.00	6.35	8.30	4.85	7.30	4.70
Kaushambi	Sarasawan	Bhagat ka Purwa	6.00	9.90	6.40	3.80	6.00	4.60	6.60	3.50	6.55	3.20
Kaushambi	Sarasawan	Hinuta	9.50	5.60	9.30	5.10	9.10	4.70	9.60	4.20	8.95	3.40
Kaushambi	Sarasawan	Jafapur Mahewa	6.80	5.60	6.35	4.00	8.80	8.00	10.10	4.55	9.20	4.35
Kaushambi	Sarasawan	Katri Khurd	24.60	20.50	24.90	21.00	26.30	22.55	25.75	22.85	26.25	21.50
Kaushambi	Sarasawan	Pabhausa								14.85	16.45	14.75
Kaushambi	Sarasawan	Poorab sharira	4.30	2.65	4.95	4.15	4.50	3.65	5.15	3.25	5.35	2.35
Kaushambi	Sirathu	Chaknara	4.60	3.25	5.30	3.40	5.25	5.30	6.75	4.05	5.95	4.50
Kaushambi	Sirathu	Kaini	11.30	4.15	6.45	4.32	8.65	8.55	10.50	5.80	8.25	6.90
Kaushambi	Sirathu	Korai	11.26	9.20	11.40	9.20	11.90	12.70	13.65	12.20	14.10	13.60
Kaushambi	Sirathu	Nyamtpur PZ	6.15	4.23	7.45	6.15	7.05	7.60	8.50	7.45	8.65	8.20
Mainpuri	Jagir (Sagamai)	Ajitganj	0.00	0.00			3.67	1.65	3.85	2.00	3.15	2.21
Mainpuri	Jagir (Sagamai)	Bhaunt	4.80	2.60			4.72	2.35	4.60	2.15	4.30	2.05
Mainpuri	Jagir (Sagamai)	Chandpur	5.55	4.65			6.28	5.15	6.12	2.55	4.95	4.45
Mainpuri	Jagir (Sagamai)	Sagamaee	3.55	1.6			2.55	0.53	3.12	1.43	2.83	0.76
Mainpuri	Karahal	Karhal-1	6.6	4.7			0	0	0	0	0	6.55
Mainpuri	Karahal	Kurra-1	3.75	2.7			0	1.95	0	0	0	3.3



Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2000-04

District Name	Block Name	Hydrograph Station	Year-2000		Year-2001		Year-2002		Year-2003		Year-2004	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Mainpuri	Karahal	Souj	0	0			2.17	0	4.6	2.4	4.5	2.19
Mainpuri	Karahal	Takrau	3.4	2.4			2.72	2.25	2.12	2.01	2.5	1.63
Mainpuri	Kishni	Apsara	4.35	2.7	0	0	4.97	3.46	4.85	2.35	4.3	2.41
Mainpuri	Kishni	Choki Khidarpur	5.35	4.3	0	0	6.23	5.96	6.01	3.81	5.01	4.45
Mainpuri	Kishni	Kishni	5.1	3.2	0	0	0	2.15	4.1	0.45	2.75	2.25
Mainpuri	Kishni	Kusmara	6.7	5.9	0	0	6.57	6.15	6.7	5.15	5.55	5.55
Mainpuri	Kishni	Saman Katra	4.05	2.2	0	0	2.03	1.43	2.9	2.08	3.88	1.46
Mainpuri	Kurawli	Bongaon	1.45	1.05			0.92	1.05	1.8	0.96	1.3	1.1
Mainpuri	Kurawli	Kurawali	5.05	3.4			0	1.7	3.52	0.55	3.3	2.13
Mainpuri	Mainpuri	Ghitoli	5.73	4.25	0	0	3.99	5.53	6.21	2.92	3.69	4.46
Mainpuri	Mainpuri	Mainpuri	6.5	5.15	0	0	5.61	5.23	5.93	3.68	0	4.41
Mainpuri	Mainpuri	Odan Mandal	0	0	0	0	6.62	6.08	6.91	4.8	0	0
Mainpuri	Mainpuri	Paronkh	9	7.8	0	0	8.37	9	9.45	7.95	8.25	8.22

Contd.,



Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Agra	Achhanera	Achhanera	4.95	4.39	8.48	9.60	8.95	11.20	9.38	9.00		
Agra	Achhanera	Achhanera Piezo	9.08	8.22	0.00	0.00	6.43	6.93	7.23	6.28		
Agra	Achhanera	Biara	6.55	4.87	6.61	6.49	6.45	6.75	7.25	4.55		
Agra	Achhanera	Kerawali	4.85	4.12	5.77	4.50	0.00	0.00	0.00	0.00		
Agra	Achhanera	Ketham-1			0.00	0.00	7.18	6.50	5.80	4.03		
Agra	Achhanera	Ketham-2	5.90	5.74	5.60	6.90	0.00	0.00	0.00	0.00		
Agra	Achhanera	Raibha	11.63	11.62	0.00	13.53	0.00	0.00	0.00	0.00		
Agra	Achhanera	Sadham Piezo	6.80	5.32	7.31	0.00	7.60	7.70	7.85	6.20		
Agra	Achhanera	Sadhan	6.50	3.26	4.62	5.48	5.69	5.65	6.00	3.80		
Agra	Akola	Akola Piezo	16.15	15.14	0.00	0.00	18.68	19.00	20.00	19.00		
Agra	Akola	Malpura-1		8.86	10.04	10.75	11.78	11.84	12.39	12.95		
Agra	Bah	Batteshwar-2	7.37	7.33	8.08	8.15	0.00	0.00	0.00	0.00	0.00	
Agra	Bah	Girandpura	23.40	23.24	23.40	23.65	0.00	0.00	0.00	0.00	20.86	
Agra	Bah	Holipura	26.65	0.00	26.65	26.45	0.00	0.00	0.00	0.00	24.54	
Agra	Bah	Sannpura			0.00	0.00	0.00	0.00	31.00	30.00		
Agra	Barauli Ahir	Badh	12.27	12.51								
Agra	Barauli Ahir	Barmrauli Katra	32.45	30.84	0.00	0.00	0.00	0.00	29.00	21.00		
Agra	Barauli Ahir	Barauli Ahir			0.00	0.00	0.00	0.00	35.00	34.00		
Agra	Bichpuri	Agra (Bhogipura)	16.85	16.50	17.50	17.20	0.00	0.00	0.00	0.00	37.22	39.21
Agra	Bichpuri	Aziapur-2	17.62	11.38			19.30	19.20	20.00	19.00	37.50	30.11
Agra	Bichpuri	Bichpuri	12.41	12.43	0.00	0.00	13.30	13.60	14.00	0.00	37.77	0.00
Agra	Bichpuri	Khalaua-1	17.68	11.11	19.38	0.00					38.32	31.71
Agra	Bichpuri	Midhakur		5.44								
Agra	Bichpuri	Khalaua-2					22.15	22.30	23.00	21.00		
Agra	Bichpuri	Naglabasua	17.66	11.20	0.00	0.00	17.25	13.98	15.00	14.00	38.04	35.51
Agra	Bichpuri	Runakta PZ	19.12	18.24	0.00	0.00	19.55	19.26	21.00	20.00		
Agra	Fatehpur Sikri	Dabur	15.17	15.27	16.47	17.15	0.00	0.00	0.00	0.00		
Agra	Fatehpur Sikri	Rasoolpur	8.65	7.01	8.74	9.50	0.00	0.00	0.00	0.00		
Agra	Fatehpur Sikri	Singapur-2	8.87	6.90								
Agra	Fatehpur Sikri	Singapur-1			0.00	0.00	9.35	9.35	9.00	7.00		



Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Agra	Fatehpur Sikri	Fathepur sikri	10.75	10.23								
Agra	Jagner	Dahgawan			10.42	12.10	0.00	0.00	0.00	0.00		
Agra	Jagner	Jagner	6.52	2.64	7.30	8.18	8.14	8.14	9.00	6.00	0.00	
Agra	Jagner	Nauni	11.19	11.48	12.14	0.00	0.00	12.48	13.00	13.00	0.00	
Agra	Jagner	Saraindhi Chauraha	12.07	12.80							0.00	
Agra	Jagner	Tantpur-1			0.00	0.00	0.00	0.00	12.00	7.00		
Agra	Jaitpur Kalan	Mau	0.00	0.00	31.40	33.05	33.05	0.00	0.00	0.00	34.80	
Agra	Jaitpur Kalan	Pathakpura	28.72	28.94							0.00	
Agra	Jaitpur Kalan	Nandgaon-1	0.00	0.00	28.41	29.20	29.20	0.00	0.00	0.00	0.00	
Agra	Jaitpur Kalan	Nandgaon-2	28.36	28.17	34.20	35.80	35.80	0.00	0.00	0.00	0.00	
Agra	Jaitpur Kalan	Nhtauli	34.65	33.13	28.90	28.20	28.20	0.00	0.00	0.00	0.00	
Agra	Khairagarh	Ayela ki Chauki	25.74	6.71	7.44	8.76	8.76	0.00	0.00	0.00		
Agra	Khairgarh	Kagaraul	11.11	11.23	11.90	0.00	0.00	13.15	14.00	12.00		
Agra	Khairagarh	Kolba	7.54	6.80	7.48	8.93	8.93	0.00	0.00	0.00		
Agra	Khairagarh	Naripura	9.37	9.37	9.67	0.00	0.00		12.00	10.00		
Agra	Kandauli	Bas Mohansah	17.29	12.99							28.21	
Agra	Kandauli	Khanda	17.31	12.90	18.32	17.60	17.60	0.00	0.00	0.00	28.40	
Agra	Pinahat	Arnota-1	0.00	0.00	0.00	0.00	0.00	13.65	14.00	0.00	0.00	
Agra	Pinahat	Arnota-2	0.00	0.00	13.85	14.50	14.50	0.00	0.00	0.00	32.31	
Agra	Pinahat	Karkoli 1	17.29	12.99	32.45	0.00	0.00	31.70	0.00	0.00	32.58	
Agra	Saiyan	Saiyan	10.95	10.85	11.67	0.00	0.00	0.00	0.00	0.00		
Agra	Khandauli	Awala Khera	0.00	0.00							28.02	
Agra	Khandauli	Khandauli Piez	17.32	12.82							28.60	
Agra	Khandauli	Tedhibagia	17.34	12.73							28.79	
Agra	Khandauli	Jagdamba I.C	17.36	12.64							28.99	
Agra	Khandauli	Challesar	17.38	12.55							29.18	
Agra	Khandauli	Kuberpur	17.40	12.46							29.37	
Agra	Khandauli	Sahadra	17.42	12.37							29.57	
Agra	Shamshabad	Sadwara PZ	17.75	10.76							39.41	
Agra	Shamshabad	Shamshabad O	17.77	10.67							39.68	
Agra	Shamshabad	Shamshabad Piezo	17.79	10.58							39.95	



Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Agra	Shamshabad	Kurra-Chitarpur	17.73	10.85	23.20	22.70	0.00	0.00	0.00	0.00	39.14	
Agra	Shamshabad	Tiolla Piezo	17.81	10.49							40.23	
Agra	Shamshabad	Kolarkalan	17.83	10.40							40.50	
Agra	Shamshabad	Inayatpur	0.00	0.00							29.76	
Agra	Shamshabad	Lakurani	17.44	12.28							29.95	0.00
Agra	Shamshabad	Chandaura	17.45	12.19							30.15	0.00
Agra	Shamshabad	Kurra-Chitarpur-2	17.47	12.10							30.34	0.00
Agra	Bichpuri	Kalwari	17.72	10.94							38.86	32.43
Agra	Pinahat	Kenjara	17.31	12.90							32.86	0.00
Agra	Pinahat	Pinahat	17.32	12.82							33.13	0.00
Agra	Pinahat	Umretha 1	17.34	12.73							33.40	0.00
Agra	Pinahat	Umretha 2	17.36	12.64							33.67	7.86
Agra	Pinahat	Pinahat 2	17.38	12.55							33.95	19.56
Agra	Pinahat	Bich ka pura	17.40	12.46							34.22	8.71
Agra	Pinahat	Mahgoli	17.42	12.37							34.49	0.00
Agra	Pinahat	Chachia	17.44	12.28							34.77	33.82
Agra	Pinahat	Pundrik Kapra	17.45	12.19							35.04	0.00
Agra	Pinahat	Ladaupura	17.47	12.10							35.31	0.00
Agra	Pinahat	Manik Pura	17.49	12.01							35.59	0.00
Agra	Pinahat	Ratoti	17.51	11.92							35.86	0.00
Agra	Pinahat	Kankarakhera	17.53	11.83							36.13	39.15
Agra	Pinahat	Gadiya	17.55	11.74							36.41	0.00
Agra	Pinahat	Gajora	17.57	11.65							36.68	0.00
Agra	Pinahat	Kukathari	17.59	11.56							36.95	0.00
Agra	Khairgarh	Kolba	25.74	6.71							0.00	0.00
Agra	Khairgarh	Nagla Pantu	11.11	11.23							0.00	0.00
Agra	Khairgarh	Kagaraul 2	7.54	6.80							0.00	0.00
Agra	Khairgarh	Bholpur	9.37	9.37							13.00	12.25
Aligarh	Akrabad	Akrabad Piezo	3.15	1.40	3.45	2.63	3.96	0.75	4.12	0.00	-	-
Aligarh	Akrabad	Bamnoi	3.15	2.66	3.52	1.22	3.56	0.85	3.10	1.50	3.15	2.70
Aligarh	Akrabad	Gopi	6.05	4.40	5.59	4.45	5.97	4.80	5.70	2.92	5.32	4.80
Aligarh	Akrabad	Pilkhana	2.85	2.10	2.80	0.85	3.10	1.15	3.28	0.00	-	-
Aligarh	Akrabad	Shahgarh	7.95	7.32	8.20	7.00	8.60	7.50	8.76	0.00	8.45	0.00



Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Aligarh	Atrauli	Atrauli-2 Piezo			10.00	8.90	10.62	9.65	10.75	8.60		
Aligarh	Atrauli	Chandauli Sujan			0.00	10.15	11.45	10.95	11.15	9.00		
Aligarh	Atrauli	Jamalgarhi PZ			12.10	10.90	12.30	11.55	12.45	10.93		
Aligarh	Atrauli	Jeroli Piezo			0.00	9.60	9.85	8.10	9.30	7.60		
Aligarh	Atrauli	Kakethal			0.00	11.75	11.58	10.30	11.45	8.55		
Aligarh	Atrauli	Kazimabad-PZ			12.00	10.55	12.10	10.60	12.38	0.00		
Aligarh	Atrauli	Khairabad			0.00	14.69	14.53	12.68	14.35	12.45		
Aligarh	Atrauli	Kheria B. Garhi			0.00	7.88	8.17	6.55	7.75	5.93		
Aligarh	Atrauli	Nahal			0.00	14.90	16.08	14.10	14.30	11.75		
Aligarh	Atrauli	Pahargarhi			0.00	5.95	7.23	6.25	7.20	5.00		
Aligarh	Atrauli	Salarpur			0.00	10.25	10.43	9.65	9.90	8.40		
Aligarh	Bijauli	Badesara			12.55	11.00	0.00	0.00	3.10	11.70		
Aligarh	Bijauli	Bijauli-2 Piezo			14.35	13.00	15.12	14.20	14.80	13.50		
Aligarh	Bijauli	Dadon-2 Piezo			9.50	8.00	9.48	7.80	9.70	8.35		
Aligarh	Bijauli	Nalga Sarak			6.70	5.10	6.75	5.20	6.55	4.45		
Aligarh	Bijauli	Pali Piezo			13.60	12.00	14.00	13.15	13.29	11.10		
Aligarh	Bijauli	Tebtu PZ			0.00	0.00	0.00	0.00	9.85	7.70		
Aligarh	Chandos	Chandos	9.55	8.54							-	-
Aligarh	Chandos	Gabhana-PZ	4.45	3.30	5.00	3.52	5.35	4.15	5.25	3.25	4.60	3.65
Aligarh	Chandos	Dhauraumor	0.00	0.00							-	-
Aligarh	Chandos	Pisawan PZ	12.20	11.32	11.90	11.00	12.12	10.10	12.21	10.60	11.45	11.10
Aligarh	Dhanipur	Akhalana-2 PZ	6.40	5.40	5.95	4.80	6.35	4.90	6.30	4.00	5.95	4.35
Aligarh	Dhanipur	Ali Nagar	0.00	0.00	0.00	15.20	16.35	15.15	16.26	15.26	16.15	15.60
Aligarh	Dhanipur	Dhanipur - 1 PZ	14.35	14.13	14.86	14.62	14.96	14.00	0.00	0.00	15.15	14.70
Aligarh	Dhanipur	Esanpur	0.00	0.00	0.00	16.50	16.35	15.20	17.10	16.20	17.05	16.15
Aligarh	Dhanipur	Harduaganj	3.25	2.62	3.86	2.85	3.90	1.60	3.65	1.60	3.75	2.90
Aligarh	Dhanipur	Panethi	5.00	2.20	5.95	3.77	6.60	4.85	6.45	3.95	5.95	3.90
Aligarh	Dhanipur	Rohini	3.95	1.92	3.62	2.47	3.65	0.95	4.20	0.57	3.50	2.85
Aligarh	Dhanipur	Shekha	2.20	1.90	2.85	1.45	2.90	0.70	2.45	0.30	2.25	0.65
Aligarh	Gangriri	Gangriri Piezo			13.00	12.00	13.32	12.15	13.35	10.70		
Aligarh	Gangriri	Hidramaee			11.62	10.00	11.68	10.10	11.76	10.20		
Aligarh	Gangriri	Malsai			8.88	8.00	9.10	8.05	9.25	0.00		



Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Aligarh	Gonda	Gahlau	4.50	3.20	5.19	3.15	5.20	3.10	5.50	2.23	4.55	4.02
Aligarh	Gonda	Gonda	3.18	1.77	4.25	2.52	4.28	3.25	4.05	3.10	4.15	3.05
Aligarh	Gonda	Guruji Ki Nagar	3.10	1.27	3.18	2.27	3.35	1.40	1.75	0.85	2.00	0.90
Aligarh	Gonda	Nagla Birkhoo	2.65	1.85	3.98	2.55	4.10	2.25	3.60	1.38	3.75	2.55
Aligarh	Jawa Sikandrapur	Barauli	3.60	5.70	4.60	3.05	3.62	2.59	3.79	1.45	3.95	1.95
Aligarh	Jawa Sikandrapur	Jawan	1.44	1.25	2.24	1.00	1.69	0.90	1.75	0.38	1.90	0.34
Aligarh	Jawa Sikandrapur	Sudhiyal - 2	10.20	9.30	9.45	9.00	9.73	8.39	9.87	8.60	9.66	8.35
Aligarh	Khair	Andela			11.60	11.10	12.75	10.88	11.65	10.50		
Aligarh	Khair	Fatehpur			3.30	1.90	3.50	2.10	3.48	1.40		
Aligarh	Khair	Khair-2 Piezo			11.04	10.00	11.25	10.05	0.00	0.00		
Aligarh	Khair	Pala			5.15	4.00	5.20	4.20	5.20	3.60		
Aligarh	Khair	Sujanpur			6.79	4.15	6.98	5.68	7.15	0.00		
Aligarh	Lodha	Ahmadpur -1	14.75	0.00	0.00	11.95	12.10	10.80	12.90	11.37	-	-
Aligarh	Lodha	Bhankari PZ	0.00	0.00	0.00	15.30	15.20	14.05	15.85	14.97	15.50	14.85
Aligarh	Lodha	Bhimpur Piezo	13.40	13.00	13.60	12.80	12.45	10.30	12.60	0.00	-	-
Aligarh	Lodha	Bhokarwali	0.00	0.00	0.00	20.70	20.85	19.44	21.35	20.00	21.10	20.70
Aligarh	Lodha	Lodha Block PZ	18.00	17.50	18.06	17.00	18.05	17.53	17.77	16.37	18.30	16.50
Aligarh	Lodha	Lodha Thana PZ	14.15	13.40	14.28	12.00	13.35	11.45	12.65	11.55	12.55	11.50
Aligarh	Lodha	Madrak Piezo	17.15	16.73	17.35	16.00	17.48	17.20	18.20	17.88	18.10	17.80
Aligarh	Lodha	Mukundpur	0.00	0.00	0.00	17.00	17.25	16.30	17.50	17.05	17.80	17.15
Aligarh	Lodha	Nada Wajidpur	0.00	0.00	0.00	15.93	16.26	15.15	17.05	15.80	17.50	16.33
Aligarh	Lodha	Pijari	0.00	0.00	0.00	14.20	14.48	12.15	12.86	11.08	14.25	11.80
Aligarh	Tappal	Bharatpur	6.30	3.20	5.53	3.47	6.00	4.25	5.10	3.85	5.00	4.00
Aligarh	Tappal	Tappal-1	9.15	8.85	0.00	0.00	0.00	0.00	0.00	0.00	10.48	8.90
Aligarh	Tappal	Tappal-2			10.40	8.60	10.68	9.45	10.05	8.78		
Aligarh	Iglas	Beswan-1	0.00	13.42	0	0.00	0.00	0.00	0.00	0.00	14.00	13.50
Aligarh	Iglas	Beswan-2			14.18	12.10	14.20	13.32	14.75	12.95		
Aligarh	Iglas	Hastpur Piezo	11.60	11.10	0.00	0.00	0.00	0.00	0.00	0.00		
Aligarh	Iglas	Iglas OW	4.90	3.85	5.30	4.90	6.32	5.70	7.25	5.00	6.82	
Aligarh	Iglas	Iglas Piezo	5.42	4.12	5.43	5.02	6.35	5.85	6.82	5.88	6.55	5.40
Aligarh	Iglas	Kala Aam	0.00	12.22	0.00	0.00	0.00	0.00	0.00	0.00		



Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
		PZ										
Aligarh	Iglas	Kalinzari	6.00	2.87	5.15	4.00	5.07	4.35	6.45	2.77	5.80	4.20
Aligarh	Iglas	Tochhigarh - 1	4.90	1.60	0.00	0.00	0.00	0.00	0.00	0.00	5.80	3.55
Aligarh	Iglas	Tochhigarh - 2			4.64	2.22	5.20	3.32	5.87	3.05	.	
Auraiya	Achhalda	Achhalda	2.85	1.12	4.18	1.74	2.95	2.60	3.65	1.46	3.62	1.55
Auraiya	Achhalda	Bachhera			2.75	1.28	3.05	2.81				
Auraiya	Achhalda	Harchandpur			6.44	4.81	7.25	7.11				
Auraiya	Achhalda	Lidhaura			6.43	4.48	7.18	7.05				
Auraiya	Achhalda	Naunikpur			9.38	8.69	9.76	9.68				
Auraiya	Achhalda	Neoliganj	5.00	3.55	5.30	4.80	7.12	3.78	6.64	4.41	5.90	5.27
Auraiya	Achhalda	Pata			6.28	3.48	5.93	5.77				
Auraiya	Achhalda	Sainpura	4.15	2.80	3.79	1.48	3.80	3.53	0.00		3.28	0.90
Auraiya	Achhalda	Tehraipur			7.09	5.69	8.75	8.67				
Auraiya	Achhalda	Tilakpur			13.42	11.86	14.44	14.30				
Auraiya	Achhalda	Vanshi			7.68	5.70	8.08	8.00				
Auraiya	Airwankatra	Airwankatara	5.40	3.95	5.95	4.85	6.20	5.60	6.80	3.90	5.80	5.10
Auraiya	Airwankatra	Baibhah	4.15	2.45	4.75	1.10	4.00	3.42	5.50	0.80	4.75	1.10
Auraiya	Airwankatra	Gulalpura	4.80	3.80	5.35	4.20	5.15	4.50	6.10	3.30	5.10	3.70
Auraiya	Airwankatra	Kudarkot			6.85	5.90	6.40	5.40	0.00			
Auraiya	Airwankatra	Rathgaon	7.80	7.20	8.40	7.90	8.40	7.60	9.00	6.80	8.35	7.20
Auraiya	Airwankatra	Umrain			8.60	8.05	0.00	0.00				
Auraiya	Auraiya	A.V.Park Aryanba			0.00	0.00	14.55	11.15				
Auraiya	Auraiya	Auraiya			11.33	7.45	10.85	9.15	11.55	8.85		
Auraiya	Auraiya	Ayana			8.60	6.40	7.67	6.00	8.90	3.15		
Auraiya	Auraiya	CH.V.S.INT. Coll			0.00	0.00	9.39	8.50				
Auraiya	Auraiya	Chichauly			12.62	11.67	12.75	11.77	13.02	8.14		
Auraiya	Auraiya	Dhanuapur			11.20	9.87	10.30	10.02				
Auraiya	Auraiya	Ekaurapur			5.85	5.50	5.86	5.25				
Auraiya	Auraiya	Hansulia			4.39	0.90	4.90	2.54				
Auraiya	Auraiya	Karanpur			8.75	7.45	0.00	0.00				
Auraiya	Auraiya	Khanpur			13.20	12.10	13.41	12.15				
Auraiya	Auraiya	Kumredpur			8.77	8.76	0.00	0.00				
Auraiya	Auraiya	Madhupur			12.23	6.79	0.00	9.34				

Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Auraiya	Auraiya	Mandi Prasad AU			0.00	0.00	17.40	16.05				
Auraiya	Auraiya	Mihauli			15.32	9.23	16.90	11.70				
Auraiya	Auraiya	Nagla Chate			0.00	0.00	0.00	0.00				
Auraiya	Auraiya	Panhar			2.79	1.35	3.39	1.32				
Auraiya	Auraiya	PM.SCHL Bhikham			0.00	0.00	11.26	10.30				
Auraiya	Auraiya	PR.School Bhaup			0.00	0.00	10.10	9.55				
Auraiya	Auraiya	PR.School Nrain			0.00	0.00	8.58	5.10				
Auraiya	Auraiya	Rahat Ka Purwa-2			13.20	12.10	13.41	12.15				
Auraiya	Auraiya	Senganpur			16.85	16.25	16.72	16.15				
Auraiya	Auraiya	Shahbda-2			15.78	13.60	16.61	16.00	17.85	12.60		
Auraiya	Ajeetmal	Amawana			18.82	0.00	0.00	0.00				
Auraiya	Ajeetmal	Anantram	9.04	8.42	10.09	8.55	10.21	9.51	11.05	6.76	9.10	8.91
Auraiya	Ajeetmal	Arjuhapur			8.60	7.05	0.00	0.00				
Auraiya	Ajeetmal	Ajeetmal	11.99	10.50	13.40	10.75	13.16	12.05	14.40	10.05	12.11	11.35
Auraiya	Ajeetmal	Ballapur	10.11	8.70	10.85	9.60	11.31	11.28			0.00	0.00
Auraiya	Ajeetmal	Bihuhani			11.87	11.28	12.97	12.45				
Auraiya	Ajeetmal	BL.Camp. Ajeetma			0.00	0.00	12.96	11.85				
Auraiya	Ajeetmal	Chitakapur			11.90	11.20	0.00	0.00				
Auraiya	Ajeetmal	Haidarpur			11.97	11.23	12.80	12.25				
Auraiya	Ajeetmal	Jagatpur	3.85	1.50	2.95	1.45	3.62	1.80	3.45	1.40	3.50	2.05
Auraiya	Ajeetmal	Jagdishpur			0.00	6.55	0.00	0.00				
Auraiya	Ajeetmal	Jr.School Bikhe			0.00	0.00	4.00	1.15				
Auraiya	Ajeetmal	Madsan			7.05	2.91	6.91	5.75				
Auraiya	Ajeetmal	Pr.School Arsu-			0.00	0.00	13.95	14.15				
Auraiya	Ajeetmal	Safar			7.48	4.85	7.45	6.50				
Auraiya	Bhagyanagar	Amarsanda			10.45	9.65	10.65	10.20				
Auraiya	Bhagyanagar	Ata			0.00	13.55	0.00	0.00				
Auraiya	Bhagyanagar	Dewarpur			14.05	12.30	14.15	13.50				
Auraiya	Bhagyanagar	Dharpur			6.05	5.35	6.80	6.45				
Auraiya	Bhagyanagar	Dibiyapur			4.05	2.05	4.95	3.50	5.30	1.05		
Auraiya	Bhagyanagar	Jugauli			4.35	1.75	4.75	2.20				
Auraiya	Bhagyanagar	Juwan			4.50	3.20	5.00	4.15				



Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Auraiya	Bhagyanagar	Kakaur			6.70	5.05	7.00	5.80				
Auraiya	Bhagyanagar	Pasaipur			5.70	3.05	6.00	5.25	6.25	1.10		
Auraiya	Bhagyanagar	Phaphoond ka purwa			4.90	2.40	5.10	2.45	4.25	1.35		
Auraiya	Bhagyanagar	Sallapur			0.00	9.60	0.00	0.00				
Auraiya	Bhagyanagar	Samadhan ka Purwa			5.90	3.50	6.05	3.75	5.90	1.15		
Auraiya	Bhagyanagar	Vasundhara			3.80	2.25	4.10	2.60				
Auraiya	Bidhuna	Baghmau			4.42	3.03	4.70	3.00	5.70	0.80		
Auraiya	Bidhuna	Bela	5.65	3.65	4.45	3.90	4.65	3.70	5.50	1.00	4.60	3.90
Auraiya	Bidhuna	Bhagwanpur	4.05	2.70	6.30	5.75	6.80	6.35	6.95	2.40	3.75	2.30
Auraiya	Bidhuna	Bhatauli			7.35	6.60	7.15	3.70				
Auraiya	Bidhuna	Bidhuna	8.90	7.65	9.35	9.05	9.38	8.65			0.00	0.00
Auraiya	Bidhuna	Khanjahanpur			8.80	8.50	8.20	7.85				
Auraiya	Bidhuna	Tejpur			6.35	5.64	6.50	6.35				
Auraiya	Sahar	Aseni			6.90	5.97	7.20	7.15				
Auraiya	Sahar	Ashu			5.70	1.97	5.39	2.00				
Auraiya	Sahar	Awawar Sarai	6.15	3.31	6.39	4.74	0.00	5.65			0.00	0.00
Auraiya	Sahar	Dinwamau	7.17	6.03	7.64	6.64	7.54	7.25	8.40	4.65	6.88	5.80
Auraiya	Sahar	Gapchhariapur			7.58	6.10	7.16	7.20				
Auraiya	Sahar	Nunare			5.41	3.55	5.11	4.25				
Auraiya	Sahar	Pauthi			5.25	2.43	0.00	0.00				
Auraiya	Sahar	Sahar	4.07	1.03	4.05	1.23	4.00	2.48	4.95	1.25	4.49	1.78
Auraiya	Sahar	Taiyarpur			10.68	9.09	9.84	8.84				
Etah	Aliganj	Pahra-2	5.68	4.70	6.00	4.75	6.10	4.34	6.21	5.72	0.00	
Etah	Aliganj	Seemore-2			6.50	6.40	5.15	0.00	0.00	0.00		
Etah	Awagarh	Awagarh	7.07	6.52	7.07	6.65	7.10	6.70	0.00	0.00	0.00	
Etah	Awagarh	Nooh Khera	4.50	3.04	4.54	3.39	3.99	2.29	3.68	1.97	3.60	2.00
Etah	Awagarh	Punhera	4.25	1.38	5.93	3.98	5.75	3.60	4.23	2.50	4.28	2.40
Etah	Awagarh	Sakara	5.15	1.87	6.42			0.00	5.32	3.60	4.87	3.60
Etah	Awagarh	Sikrari	7.36	6.41	7.40	6.30	0.00	6.25	0.00	8.01	9.64	8.15
Etah	Awagarh	Sonsa			6.05	4.15	0.00	0.00	0.00	0.00		
Etah	Jaithara	Bhalol-1	0.00	2.45	4.10	2.70	4.25	2.90	4.32	3.68	4.00	3.50
Etah	Jaithara	Dhumari-2	0.00	0.00	2.92	2.15	3.05	2.56	3.18	2.42	0.00	
Etah	Jaithara	Jaithara-2	4.15	3.79	4.75	3.25	0.00	0.00	0.00	0.00	0.00	



Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Etah	Merehra	Mirhachih Piezo			8.05	6.50	8.36	7.80	7.70	6.90		
Etah	Nidholikalan	Gadanpur	7.80	5.67	7.90	5.60	0.00	0.00	0.00	0.00	0.00	
Etah	Nidholikalan	Jitoli Piezo	5.60	4.30	5.65	4.10	0.00	0.00	6.52	4.35	6.60	4.40
Etah	Nidholikalan	Nidholi Kalan P	6.90	6.68	6.88	6.00	6.90	6.35	0.00	0.00	0.00	
Etah	Nidholikalan	Vasundhara	9.40	8.88	9.63	8.70	0.00	0.00	0.00	0.00	0.00	
Etah	Sakeet	Malwan-2			5.15	2.65	5.19	2.90	0.00	0.00		
Etah	Sakeet	Phaphootoo-2			7.12	5.23	7.15	5.55	7.95	6.90		
Etah	Sakeet	Sakeet-PZ			5.75	5.00	5.95	4.90	5.80	4.70		
Etah	Sheetalpur	Chachena			4.65	3.60	4.80	3.15	4.90	3.10		
Etah	Sheetalpur	Jeesakpur	5.92	0.00	0.00	0.00	9.27	8.95	9.34	7.00	8.00	6.95
Etah	Sheetalpur	Kakruali Piezo	0.00	4.95	6.15	5.80	0.00	0.00	7.00	5.80	6.90	5.70
Etah	Sheetalpur	Katholee			9.07	6.32	0.00	0.00	0.00	0.00		
Etah	Sheetalpur	Lalgrahi Piezo	9.60	0.00	9.98	9.15	0.00	0.00	0.00	0.00	10.00	8.50
Etah	Sheetalpur	Nagla Jagroop	10.15	0.00	0.00	0.00	9.85	9.40	9.95	7.85	10.00	7.70
Etah	Sheetalpur	On Ghat	4.00	3.60	4.00	3.70	4.15	3.84	4.32	0.00	0.00	
Etah	Sheetalpur	Pahara - 1	0.00	0.00	0.00	0.00	0.00	0.00	11.50	6.70	0.00	
Etah	Sheetalpur	Pahara - 2			0.00	0.00	11.35	9.82	0.00	0.00		
Etah	Jalesar	Bareni			8.59	6.15	9.28	9.07	9.62	9.00		
Etah	Jalesar	Jalesar - 2			12.25	10.15	0.00	0.00	0.00	0.00		
Etah	Jalesar	Nagla Pawara			8.48	7.15	8.68	8.53	9.70	9.00		
Etah	Jalesar	Neen Kee Sarai			8.77	6.62	9.48	9.02	10.02	8.92		
Etah	Jalesar	Rajawali - 1			10.75	7.15	0.00	0.00	0.00	0.00		
Etawah	Barhpura	Balampur			7.50	6.90	7.28	7.10	7.52	5.55		
Etawah	Barhpura	Barhapura Thana	27.32	26.46	27.09	26.80	30.94	30.39	30.70	29.69	30.95	30.30
Etawah	Barhpura	Block office camp -P			0.00	0.00	23.95	23.33	24.30	22.45		
Etawah	Barhpura	Chhotegati	26.97	26.83	27.28	26.73	27.20	26.80	27.45	26.20	27.38	27.15
Etawah	Barhpura	D.I.Office-P			0.00	0.00	21.57	20.95	21.85	21.25		
Etawah	Barhpura	Ekdil	8.53	7.12	8.58	7.52	9.42	8.50	9.90	5.50	8.15	6.50
Etawah	Barhpura	Etawah Yamuna Pul	16.67	14.60	16.65	16.07	16.40	16.10	16.55	15.53	16.65	15.95
Etawah	Barhpura	Etawah Yamuna Road	9.22	9.65	10.15	10.00	10.00	9.67	10.15	8.90	10.05	9.35
Etawah	Barhpura	Hardaspura			4.60	4.22	4.22	2.20	2.60	2.20	.	



Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Etawah	Barhpura	ITI office-P			0.00	10.22	10.22	9.70	9.35	8.90		
Etawah	Barhpura	Kamainth			22.85	22.55	22.55	22.10	22.90	21.05		
Etawah	Barhpura	Kori Kuwan	35.42	35.15	36.10	35.72	35.72	36.00	36.10	35.49	36.40	36.25
Etawah	Barhpura	Madaiya Karilgarh			33.02	31.60	31.60	31.52	32.10	31.50		
Etawah	Barhpura	Maleriya Office			7.20	26.65	26.65	26.33	27.05	25.95		
Etawah	Barhpura	Mandir Etawah			0.00	7.02	7.02	6.55	7.25			
Etawah	Barhpura	Nagla Gaur	23.60	24.02	7.65	0.00	0.00	0.00			0.00	0.00
Etawah	Barhpura	Nagla Sati			7.78	7.80	7.80	6.80	7.30	5.45		
Etawah	Barhpura	Phuphai			5.00	7.02	7.02	6.90				
Etawah	Barhpura	Pilkhar			5.00	4.47	4.47	4.42	4.55	4.00		
Etawah	Barhpura	S.T.Office-P			0.00	22.80	22.80	22.25				
Etawah	Barhpura	Sanghawali			3.90	3.15	3.02	3.02	3.35	2.80		
Etawah	Barhpura	Santhi Colony			11.75	0.00	0.00	0.00				
Etawah	Barhpura	Ude Gaon	37.20	36.20	37.10	37.30	30.89	30.89	37.30	35.85	37.50	37.15
Etawah	Barhpura	UP Roadways Off			0.00	18.98	18.35	18.35	19.60	19.05		
Etawah	Basrehar	Amritpur			5.95	5.80	5.40	5.40	5.15	2.55		
Etawah	Basrehar	Baktiyarpur			4.50	4.88	4.03	4.03	4.18	1.95		
Etawah	Basrehar	Baralokpur			4.45	4.56	305.00	3.05				
Etawah	Basrehar	Barlokpura-Piez			0.00	0.00	6.95	7.00	7.10	5.90		
Etawah	Basrehar	Basrehar			6.10	0.00	0.00	0.00				
Etawah	Basrehar	Basrehar-Piezo			0.00	0.00	11.70	11.80	12.15	11.85		
Etawah	Basrehar	Bina			9.10	6.78	8.00	7.30	9.00	3.95		
Etawah	Basrehar	Bhitbhwani Nauli			3.55	1.80	3.90	1.75	2.95	1.70		
Etawah	Basrehar	Etagaon			10.20	8.00	10.50	9.75	10.95	6.40		
Etawah	Basrehar	Lohiya			2.84	1.66	3.79	1.59	3.30	1.80		
Etawah	Basrehar	Raipura			0.00	2.48	0.00	0.00				
Etawah	Basrehar	Sirsa			7.15	6.42	7.75	7.40	8.10	5.10		
Etawah	Basrehar	Baharpur			4.80	1.90	5.75	3.17	4.98	1.85		
Etawah	Basrehar	Bharthana	5.00	4.02	5.80	4.83	6.83	5.90	7.22	2.21	5.94	4.40
Etawah	Basrehar	Birariasharam			8.82	8.17	9.85	9.15	10.82	5.65		
Etawah	Basrehar	Chandrapura	3.25	1.15	3.72	1.02	3.39	1.40	3.50	0.85	3.62	1.45
Etawah	Basrehar	Dibrasai			3.75	1.70	3.90	1.82	4.05	0.95		



Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Etawah	Basrehar	Moodhi	7.15	6.91	7.19	7.12	0.00	0.00	11.41	7.17	8.30	7.98
Etawah	Basrehar	Naglachha Marpura			4.39	1.05	4.35	1.23	3.90	0.84		
Etawah	Basrehar	Poli Kalan			6.40	5.16	7.30	6.80	7.40	1.76		
Etawah	Basrehar	Thari			3.10	1.59	4.04	1.23	4.30	0.80		
Etawah	Basrehar	Umarsenda	3.39	1.08	3.27	1.30	3.33	1.42	3.27	0.78	2.90	1.30
Etawah	Chakarnagar	Hanumant Pura			37.12	37.04	36.95	36.48	36.84	35.55		
Etawah	Chakarnagar	Harauli			15.73	15.05	16.04	15.95	16.55	14.94		
Etawah	Chakarnagar	Jagtauli			0.00	39.96	40.22	40.12				
Etawah	Chakarnagar	Kasauahar-1	36.55	35.80	0.00	0.00	0.00	0.00			36.36	0.00
Etawah	Chakarnagar	Kasauahar-2			36.17	35.68	35.93	35.83				
Etawah	Chakarnagar	Kthori Ka Nagla	33.85	34.73	35.28	34.81	38.30	38.12	38.22	37.09	37.95	3706.00
Etawah	Chakarnagar	Nagala Jor Chan			24.83	23.65	24.15	23.58		23.53		
Etawah	Chakarnagar	Sahson			21.30	0.00	0.00	0.00				
Etawah	Chakarnagar	Sirsa			36.85	36.56	36.97	36.81	37.53			
Etawah	Jaswant Nagar	Ajnaura-P			0.00	0.00	23.50	0.00				
Etawah	Jaswant Nagar	Chaksalempur	4.50	2.60	4.05	2.55	4.35	2.75	4.55	2.70	5.80	3.40
Etawah	Jaswant Nagar	Hinna	4.50	1.40	5.30	1.90	5.60	2.00	5.60	1.00	6.10	2.60
Etawah	Jaswant Nagar	Jaswant Nagar	11.45	10.20	12.10	11.00	9.50	8.00	12.63	8.60	12.85	11.30
Etawah	Jaswant Nagar	Kachaura Ghat	6.20	5.00	6.10	5.40	6.45	5.70	6.60	3.90	6.00	5.30
Etawah	Jaswant Nagar	Khar Dhaulpur-P			0.00	0.00	24.30	23.95	24.85	24.00		
Etawah	Jaswant Nagar	Pr.School Dhanu			0.00	0.00	20.60	0.00				
Etawah	Jaswant Nagar	Rai Nagar-P			0.00	0.00	24.60	20.70	21.90	17.60		
Etawah	Jaswant Nagar	Udai Singh KA N			6.35	4.15	6.05	5.55	6.85	3.50		
Etawah	Mahewa	Aheripur			8.35	6.50	8.35	8.00	8.93	4.10		
Etawah	Mahewa	Bakewar	6.55	3.80	5.35	4.35	7.33	4.70	7.10	2.45	7.55	5.30
Etawah	Mahewa	Barhaura			6.20	7.52	6.63	3.10	5.80	1.25		
Etawah	Mahewa	Ekdil	8.53	7.12	8.50	0.93	9.42	8.50			0.00	0.00
Etawah	Mahewa	Lakhna	3.13	0.80	3.08	6.35	2.83	1.00	2.23	0.40	1.93	0.83
Etawah	Mahewa	Ludhiyanbi			7.45	1.95	8.35	3.50	7.55	1.68		
Etawah	Mahewa	Mahewa	4.70	2.29	4.70	19.10	4.92	3.30	7.45	1.55	4.70	2.70



Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Etawah	Mahewa	Newada Khurd			21.05	19.10	20.80	19.50	21.30	18.40		
Etawah	Mahewa	Niwari Kalan			3.90	1.95	4.30	3.15	3.85	1.30		
Etawah	Mahewa	Sabdulpur	26.35	25.80	26.10	25.15	27.30	27.00	27.65	25.95	26.70	26.20
Etawah	Mahewa	Saray Jalal	7.90	6.20	7.35	6.75	8.45	8.05	9.55	5.52	7.30	6.05
Etawah	Mahewa	Sunbarsa			4.80	1.43	5.15	2.53	5.15	1.60		
Etawah	Mahewa	Udhanatpura			5.95	2.75	6.30	3.10	6.05	1.90		
Etawah	Mahewa	Urang			7.00	5.22	7.05	6.05	8.30	1.93		
Etawah	Mahewa	Vighipur			19.61	18.70	19.75	19.50				
Etawah	Mahewa	Vyaspura			9.00	8.02	9.05	8.75	9.55	6.45		
Etawah	Tekha	Nagala Bhagat			2.45	1.15	2.60	1.30	2.75	1.15		
Etawah	Tekha	Rampura			7.30	5.53	7.45	6.53	8.00	3.85		
Etawah	Tekha	Rudauly			3.50	2.48	3.94	1.45	4.35	0.75		
Etawah	Tekha	Samthar			3.43	1.92	4.15	2.63	3.55	1.80		
Etawah	Tekha	Sarsai Nawar			4.00	2.40	0.00	0.00	4.15	2.40		
Etawah	Tekha	Takha			4.15	2.22	4.15	2.60	3.80	1.95		
Etawah	Tekha	Uaditpura			5.43	3.08	4.75	4.45	5.25	1.75		
Etawah	Tekha	Usrehar			7.48	6.60	10.95	10.35	11.95	8.65		
Etawah	Saifai	Block office - P			0.00	0.00	6.00	3.65	5.95	1.15		
Etawah	Saifai	Chakpur			11.50	10.70	12.20	11.80	12.90	10.30		
Etawah	Saifai	Ginja-P			0.00	0.00	10.30	10.50				
Etawah	Saifai	Kumhawar			5.80	3.85	6.20	4.60	6.85	3.40		
Etawah	Saifai	Machehara			5.60	1.90	5.30	3.45	5.55	0.60		
Etawah	Saifai	Nagala Shree			2.65	1.35	3.70	1.10	3.75	1.00		
Etawah	Saifai	Narhauli			5.55	3.45	4.85	3.60	5.22	2.10		
Etawah	Saifai	Parasana			0.00	0.00	6.10	5.75	5.15	1.15		
Etawah	Saifai	Rakuya/Hardoi			3.00	2.20	3.90	1.00				
Etawah	Saifai	Vaidpura-P			0.00	0.00	22.60	21.65	22.75	21.15		
Farrukhabad	Barhapur	Chandpur			0.00	11.86	0.00	0.00				
Farrukhabad	Kaimganj	Arjun Nagla	3.13	2.16	3.09	2.66	3.05	2.30			0.00	0.00
Farrukhabad	Kaimganj	Ataiepur			12.78	11.40	0.00	0.00				
Farrukhabad	Kaimganj	Kampil Ow	7.96	7.13	4.75	4.58	4.70	3.50		3.05	8.35	
Farrukhabad	Kaimganj	Kyamganj Ow			8.70	7.26	8.41	7.63	9.10	6.83		
Farrukhabad	Kaimganj	Kyamganj Piezo			7.73	4.90	7.80	6.06	7.95	4.96		

Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Farrukhabad	Kaimganj	Kunnwaravlak			6.10	4.90	5.23	4.43				
Farrukhabad	Kaimganj	Madaul Piezo			0.00	0.00	0.00	0.00				
Farrukhabad	Kaimganj	Natwar Nagla			5.66	1.80	5.30	3.04		1.06		
Farrukhabad	Kaimganj	Rudayan	7.94	7.32	8.70	7.95	8.07	7.40	7.95	6.05	7.95	7.55
Farrukhabad	Kaimganj	Sammudeenpur	2.47	1.50	2.40	1.60	2.64	1.06	1.95	0.80	2.65	1.90
Farrukhabad	Kamalganj	Dariyanganj Piez			17.55	17.05	17.55	17.45	17.90	15.80		
Farrukhabad	Kamalganj	Jahanganj-PZ			18.25	17.40	19.70	18.15	18.40	16.65		
Farrukhabad	Kamalganj	Jarari	14.35	13.55	14.55	13.20	14.55	14.37	14.45	13.25	14.40	13.70
Farrukhabad	Kamalganj	Kalajhala			14.95	14.10	0.00	0.00				
Farrukhabad	Kamalganj	Majhgawan			10.60	9.10	0.00	0.00		9.95		
Farrukhabad	Kamalganj	Narayanpur Piez			16.60	16.10	16.60	15.40	15.65	13.75		
Farrukhabad	Kamalganj	Shekhpur Piezo			16.30	16.00	16.70	16.20	16.85	14.95		
Farrukhabad	Kamalganj	Sringirampur	13.58	12.93	14.30	14.10	14.65	14.20	14.85	12.25	14.70	13.80
Farrukhabad	Mohamada bad	Madnapur	12.75	11.25	13.38	11.57	14.26	13.64	14.52	13.15	0.00	0.00
Farrukhabad	Nawabganj	Chandua	3.94	2.88	4.77	3.71	4.71	4.00	5.60	3.99	5.05	4.05
Farrukhabad	Rajepur	Amritpur			4.78	3.35	4.65	3.85	4.53	2.90		
Farrukhabad	Rajepur	Darapur			5.15	4.20	5.10	4.45	4.90	4.05		
Farrukhabad	Rajepur	Dhaliya			5.50	3.37	4.95	4.45			0.00	0.00
Farrukhabad	Rajepur	Khandolli			5.55	3.51	5.05	4.03	5.34	3.70		
Farrukhabad	Rajepur	Rajepur			5.62	3.35	5.28	4.60	5.46	3.93		
Farrukhabad	Shamsabad	Faizbagh Ow			9.45	8.20	9.40	9.05				
Farrukhabad	Shamsabad	Majhana			12.78	11.40	0.00	0.00				
Farrukhabad	Shamsabad	Roshnabad	7.22	7.05	7.89	7.25	0.00	0.00				
Fatehpur	Airayan	Ariyansadat			0.00	0.00	0.00	0.00	11.06	6.16		
Fatehpur	Airayan	Allipur Bhadar			0.00	0.00	0.00	0.00	14.30	2.50		
Fatehpur	Airayan	Bahera			0.00	0.00	0.00	0.00	0.00	0.00		
Fatehpur	Airayan	Budwan			0.00	0.00	0.00	0.00	14.34	8.94		
Fatehpur	Airayan	Gukhurwa Purwa			0.00	0.00	0.00	0.00	0.00	0.00		
Fatehpur	Airayan	Kasba Sohan			14.30	14.05	0.00	0.00	0.00	0.00		
Fatehpur	Airayan	Katoghan			0.00	0.00	0.00	0.00	15.85	12.05		
Fatehpur	Airayan	Mandawa			14.15	13.90	14.95	14.20	14.60	11.95		
Fatehpur	Airayan	Mohammadpur Gaunti			0.00	0.00	0.00	0.00	16.45	11.05		
Fatehpur	Airayan	Naksara			14.45	14.30	0.00	0.00	0.00	0.00		



Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Fatehpur	Airayan	Oramha			0.00	0.00	0.00	0.00	13.69	8.04		
Fatehpur	Airayan	Purein			13.55	13.40	0.00	0.00	0.00	0.00		
Fatehpur	Airayan	Purein			0.00	0.00	0.00	0.00	14.45	0.00		
Fatehpur	Airayan	Rapur Afoi			0.00	0.00	0.00	0.00	17.08	11.63		
Fatehpur	Airayan	Sultanpur Ghosh			0.00	0.00	0.00	0.00	12.90	8.05		
Fatehpur	Amauli	Amauli			24.60	22.52	26.20	25.80	28.50	25.30	26.60	25.40
Fatehpur	Amauli	Argal			21.70	20.70	0.00	0.00	0.00	0.00		
Fatehpur	Amauli	Chandpur			21.10		21.55	20.85	22.85	0.00	27.10	24.00
Fatehpur	Amauli	Dapsaura			26.80	26.10	0.00	0.00	0.00	0.00	21.90	19.45
Fatehpur	Amauli	Digharuwa			20.10	21.20	0.00	0.00	0.00	0.00		
Fatehpur	Amauli	Neori jalalpur-2			18.05	18.00	0.00	0.00	0.00	0.00		
Fatehpur	Amauli	Ranpur-1	13.90	12.10	14.30	14.00	15.20	15.30	17.10	13.50	15.05	0.00
Fatehpur	Asothar	Asothar I			5.70	5.18	5.83	4.78	5.43	4.20		
Fatehpur	Asothar	Asothar II	3.88	4.58	4.87	4.70	5.88	4.65	5.78	4.43	3.20	2.18
Fatehpur	Asothar	Bholapur			0.00	0.00	0.00	0.00	0.00	0.00	13.93	13.78
Fatehpur	Asothar	Block H.Q. Asothar			0.00	0.00	6.25	4.00	4.55	2.04	2.50	1.25
Fatehpur	Asothar	Deolan			9.48	7.19	10.60	10.00		0.00	21.10	21.93
Fatehpur	Asothar	Kandhiya			11.82	9.13	11.77	10.82	11.10	9.30	13.15	12.17
Fatehpur	Asothar	Konder			0.00	0.00	0.00	0.00	0.00	0.00	5.95	2.06
Fatehpur	Asothar	Korra Kanak			7.85	8.56	11.57	11.12		0.00		
Fatehpur	Asothar	Lalauly			10.86	10.80	11.00	0.00		0.00		
Fatehpur	Asothar	Sarki			9.20	7.67	0.00	0.00	0.00	0.00		
Fatehpur	Asothar	Sarwal			10.40	9.10	10.75	10.00	10.50	9.25		
Fatehpur	Asothar	Sidhaon			0.00	0.00	0.00	0.00	0.00	0.00	6.10	0.45
Fatehpur	Asothar	Tikri	3.40	2.40	2.48	2.30	2.90	2.40	2.80	2.10	3.80	4.03
Fatehpur	Bahuwa	Bahuwa			6.65	5.42	0.00	0.00	0.00	0.00		
Fatehpur	Bahuwa	Banarsi			0.00	0.00	0.00	0.00	17.65	13.60	15.05	14.75
Fatehpur	Bahuwa	Baragaon			0.00	0.00	0.00	0.00	12.81	6.45	9.46	6.40
Fatehpur	Bahuwa	Chakaskaran			0.00	0.00	0.00	0.00	12.75	7.70	12.15	7.75
Fatehpur	Bahuwa	Churiyani			13.85	13.55			0.00	0.00		
Fatehpur	Bahuwa	Churiyani-2			0.00	0.00	18.46	18.02	19.35	16.85	17.20	17.45
Fatehpur	Bahuwa	Gauri			4.40	3.70	4.73	3.90	4.55	3.02	3.90	2.10
Fatehpur	Bahuwa	Gazipur-1			12.30	14.06			0.00	0.00	15.90	15.35



Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Fatehpur	Bahuwa	Gazipur-2			0.00	0.00	16.22	15.00	16.90	12.65		
Fatehpur	Bahuwa	Karsawan			5.40	3.90	4.70	3.30	4.55	1.40	3.40	1.45
Fatehpur	Bahuwa	Khatauli			0.00	0.00	0.00	0.00	2068.00	17.00	17.37	16.75
Fatehpur	Bahuwa	Mohammadpur Gaunti			14.85	14.10	15.33	14.35	17.93	13.10	14.45	14.00
Fatehpur	Bahuwa	Shah					0.00	0.00	0.00	0.00	15.90	16.25
Fatehpur	Bahuwa	Shah			0.00	0.00	0.00	0.00	17.67	14.75		
Fatehpur	Bahuwa	Sujanpur			17.15	14.50	17.55	15.20	19.50	13.25	15.65	14.35
Fatehpur	Bhitaure	Bajrangapur			5.80	4.90	7.15	4.65	5.55	2.10		
Fatehpur	Bhitaure	Bela			5.65	3.16	6.00	3.60	4.65	1.90		
Fatehpur	Bhitaure	Block H.Q. Bhitaure			0.00	0.00	13.05	10.80	13.45	10.35		
Fatehpur	Bhitaure	Garieva			6.73			6.87	7.87	2.27		
Fatehpur	Bhitaure	Husainganj				9.80	10.65			8.25		
Fatehpur	Bhitaure	Sahimapur			7.35	6.83	7.60	6.05	7.10	1.95		
Fatehpur	Bhitaure	Shivpur			14.30	14.05	14.35	14.10	15.40	10.45		
Fatehpur	Deomai	Bakevar	3.05	1.55	3.30	2.40	4.10	2.90	2.30	1.00	3.00	1.10
Fatehpur	Deomai	Block H.Q. Deomai			0.00	0.00	6.55	4.45	4.80	2.30	4.90	2.10
Fatehpur	Deomai	Dari Khurd			0.00	0.00	0.00	0.00	0.00	0.00	10.15	7.55
Fatehpur	Deomai	Deomai			5.88	1.90	6.55	4.45	5.20	2.62		
Fatehpur	Deomai	Jahanabad-2			18.16	17.70	20.42	19.65	22.10	12.95		
Fatehpur	Deomai	Kalana			0.00	0.00	0.00	0.00	0.00	0.00	13.45	10.95
Fatehpur	Deomai	Kanshmiri	1.50	1.20	2.75	1.25	4.10	3.75	4.70	2.40	4.50	3.40
Fatehpur	Deomai	Karchalpur			0.00	0.00	0.00	0.00	0.00	0.00	10.50	9.70
Fatehpur	Deomai	Khadra			16.32	14.80	16.92	16.00	16.80	14.60	15.40	14.60
Fatehpur	Deomai	Musafa	7.40	4.60	8.12	4.10	10.65	6.40	8.85	2.45	7.00	2.95
Fatehpur	Deomai	Shakoorabad			17.18	16.40	18.65		19.85	13.45	17.35	16.05
Fatehpur	Deomai	Tikra			10.60	9.90	11.55	9.25	10.55	6.05	9.25	7.95
Fatehpur	Dhata	Dendasai			0.00	0.00	21.93	21.40	22.93	19.01	19.91	19.60
Fatehpur	Dhata	Dhata-2	7.06	6.11	7.90	6.31	7.53	6.81	8.51	4.89	6.91	
Fatehpur	Dhata	Ghosi			0.00	0.00	22.09	22.30	23.30	20.30	22.13	
Fatehpur	Dhata	Gursandi			0.00	0.00	8.00	5.85	7.10	3.50	4.70	
Fatehpur	Dhata	Pauli			19.80	18.80	0.00	0.00	0.00	0.00		
Fatehpur	Dhata	Virdholpur			13.70	10.05	14.15	0.00	0.00	0.00		
Fatehpur	Dhata	Virdholpur			0.00	0.00	14.15	9.95	13.85	0.00		



Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Fatehpur	Haswa	Bahrampur			0.00	0.00	0.00	0.00	0.00	0.00		
Fatehpur	Haswa	Beerav			0.00	0.00	17.20	16.80	17.85	16.40		
Fatehpur	Haswa	Bhairwan			0.00	0.00	13.65	13.00	14.00	10.95		
Fatehpur	Haswa	Block H.Q. Haswa			0.00	0.00	18.10	15.45	16.55	13.15		
Fatehpur	Haswa	Haswa Mod			14.90	13.35	17.60	14.95	16.55	13.35		
Fatehpur	Haswa	Manawan			12.70	13.40	10.20	6.10	6.35	3.40		
Fatehpur	Haswa	Murawn			0.00	0.00	0.00	0.00	9.25	4.90		
Fatehpur	Haswa	Murawn			8.50	8.65	9.45	8.25	0.00	0.00		
Fatehpur	Haswa	Rasulabad (Rly St)			11.95	13.10	0.00	0.00	0.00	0.00		
Fatehpur	Haswa	Santo			12.70	9.70	10.20	6.10	8.35	0.00		
Fatehpur	Haswa	Usraina			0.00	0.00	17.15	16.50	18.23	14.08		
Fatehpur	Hathgaon	Ahinda			0.00	0.00	0.00	0.00	5.85	4.10	1.97	3.13
Fatehpur	Hathgaon	Chhivlaha			0.00	0.00	0.00	0.00	6.44	4.38	1.73	2.40
Fatehpur	Hathgaon	Hathgaon			0.00	0.00	0.00	0.00	0.00	0.00		17.22
Fatehpur	Hathgaon	Manapur			12.15	12.50	14.48	1345.00	0.00	0.00		
Fatehpur	Hathgaon	Palia Buzurg			0.00	0.00	0.00	0.00	7.34	5.14	7.37	8.53
Fatehpur	Hathgaon	Pure Adhari			0.00	0.00	0.00	0.00	16.90	14.30	15.08	15.60
Fatehpur	Hathgaon	Raichand pur			0.00	0.00	0.00	0.00	16.63	13.24	0.00	0.00
Fatehpur	Hathgaon	Sanwat			0.00	0.00	0.00	0.00	8.65	5.50	8.78	9.35
Fatehpur	Hathgaon	Sarayn	6.35	4.80	7.05	6.43	8.68	5.85	8.05	3.65		
Fatehpur	Hathgaon	Semra			11.53	12.10	13.30	12.20	13.65	10.22		
Fatehpur	Hathgaon	Semra Manapur			0.00	0.00	0.00	0.00	14.45	11.12	12.22	11.30
Fatehpur	Hathgaon	Shahpur			0.00	0.00	0.00	0.00	17.45	14.12	16.23	16.72
Fatehpur	Khajuha	Banjholawa			0.00	0.00	0.00	0.00	0.00	0.00	8.10	6.60
Fatehpur	Khajuha	Bindki Chauraha			10.55	12.15	14.20	12.55	16.05	0.00		
Fatehpur	Khajuha	Joniha			16.15	15.85	0.00	0.00	0.00	0.00	17.45	14.35
Fatehpur	Khajuha	Khajuha			12.55	12.60	13.45	12.80		10.15	13.05	12.15
Fatehpur	Khajuha	Kirti Khera	13.51	9.56	14.20	13.49	14.90	14.80	16.56	14.86	16.05	16.11
Fatehpur	Khajuha	Lakpur-2	11.40	10.45	12.00	12.85	13.70	13.65	14.65	12.50	12.78	13.60
Fatehpur	Khajuha	Mandrao			7.75	6.75	8.75	6.86	9.55	4.80	14.85	10.30
Fatehpur	Khajuha	Sarayn			0.00	0.00	0.00	0.00	8.05	0.00	0.00	0.00
Fatehpur	Khajuha	Sultangarh			0.00	0.00	0.00	0.00	0.00	0.00	23.05	18.50
Fatehpur	Khajuha	Zafarganj	20.01	15.16	20.88	19.15	21.75	20.36	22.76	18.91	21.70	20.76

Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Fatehpur	Malawan	Amaura			8.14	7.64	8.75	6.78	8.58	3.65	24.17	23.61
Fatehpur	Malawan	Aung	21.12	19.50	21.75	21.98	23.30	22.90	24.20	21.62		
Fatehpur	Malawan	Bindki Road Chauraha			15.16	15.50	17.40	16.80		0.00		
Fatehpur	Malawan	Block H.Q. Malwa			0.00	0.00	7.60	4.93	5.37	1.69	2.50	2.65
Fatehpur	Malawan	Darweshabad			0.00	0.00	16.05	15.70	17.58	12.33	13.43	14.21
Fatehpur	Malawan	Daulatapur			4.56	4.72	5.37	4.75	6.00	0.00		
Fatehpur	Malawan	Kalyanpur			8.86	9.12	9.78	8.90	10.00	7.54	7.22	6.98
Fatehpur	Malawan	Kunwarpur	6.34	3.33	7.70	7.35	8.12	7.27	8.67	2.82	6.52	5.29
Fatehpur	Malawan	Malawan			5.94	5.00	6.61	4.60	6.70	2.45		
Fatehpur	Malawan	Malawan-2	5.40	3.15	6.50	4.75	7.47	4.80	5.99	1.65	4.13	3.16
Fatehpur	Malawan	Mauhar	9.49	8.90	10.70	8.20	9.12	8.23	9.75	7.25	8.73	7.43
Fatehpur	Malawan	Muradipur	7.00	4.52	7.25	6.11	7.95	7.15	8.45	6.22	7.28	5.62
Fatehpur	Malawan	Namamau			8.40	6.35	7.90	6.05	8.20	2.25	6.48	3.80
Fatehpur	Malawan	Sheorajpur	10.10	7.93	10.40	10.40	10.15	9.12	10.52	6.85	9.61	8.90
Fatehpur	Malawan	Tenduli	9.90	7.65	11.60	11.83	12.15	11.45	14.38	7.77	9.17	8.67
Fatehpur	Teliyani	Abnagar Choki			9.80	10.45	10.88	10.20	10.70	7.67		
Fatehpur	Teliyani	Allipur			5.80	6.17	7.17	6.15	8.00	5.15		
Fatehpur	Teliyani	Arakhpur Mod			3.55	2.80	3.30	2.00	5.55	1.95		
Fatehpur	Teliyani	Bakarganj			3.77	2.25	3.03	1.28	3.70	1.45		
Fatehpur	Teliyani	Bastapur			0.00	0.00	0.00	6.18	6.45	4.95		
Fatehpur	Teliyani	Bilanda			0.00	0.00	0.00	0.00	14.22	8.22		
Fatehpur	Teliyani	Block H.Q. Teliyani			0.00	0.00	9.60	9.29	10.30	6.13		
Fatehpur	Teliyani	Korai			8.60	8.88	10.93	10.55	11.60	9.71		
Fatehpur	Teliyani	Manjhoopur			0.00	0.00	0.00	5.90	6.45	3.77		
Fatehpur	Teliyani	Panai Chauraha			0.00	0.00	0.00	18.90	19.47	14.23		
Fatehpur	Teliyani	Sangaon			6.60	6.83	8.15	7.37	8.60	5.46		
Fatehpur	Teliyani	Teliyani-2 Fatehpur			6.25	6.45		9.29	10.20	6.40		
Fatehpur	Teliyani	Trilokipur			0.00	0.00	0.00	0.00	15.54	11.20		
Fatehpur	Vijayeeppur	Adharpur			0.00	0.00	0.00	0.00	14.45	9.90	11.55	9.95
Fatehpur	Vijayeeppur	Ahmadganj Tihar			0.00	0.00	0.00	0.00	24.05	20.22	23.00	
Fatehpur	Vijayeeppur	Barauli			0.00	0.00	0.00	0.00	15.37	10.39	11.85	
Fatehpur	Vijayeeppur	Dariyamau			0.00	0.00	0.00	0.00	19.12	18.02	19.57	



Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Fatehpur	Vijayee pur	Khasmau			0.00	0.00	0.00	0.00	16.43	11.40	22.95	
Fatehpur	Vijayee pur	Kishanpur					18.58	17.06	19.22	17.90		
Fatehpur	Vijayee pur	Nandapur Skuri			11.50	11.80	0.00	0.00	0.00	0.00		
Fatehpur	Vijayee pur	Narottampur			0.00	0.00	0.00	0.00	14.41	10.01	12.87	
Fatehpur	Vijayee pur	Nihampur			0.00	0.00	0.00	0.00	12.88	9.78	0.00	
Fatehpur	Vijayee pur	Rakhsapal pur			0.00	0.00	21.48	0.00	0.00	0.00	21.48	
Fatehpur	Vijayee pur	Rampur			0.00	0.00	0.00	0.00	17.39	15.45	15.95	
Fatehpur	Vijayee pur	Silmi			15.30	15.90	15.22	13.20	14.80	11.00	14.68	
Fatehpur	Vijayee pur	Taini			0.00	0.00	0.00	0.00	14.48	12.42	0.00	
Fatehpur	Vijayee pur	Tesahi Buzurg			0.00	0.00	14.80	13.55	16.28	11.80	12.80	
Fatehpur	Vijayee pur	Trilochanpur			13.35	14.30	15.30	14.30	17.46	15.60	16.25	
Firozabad	Eka	Mustafabad	6.75	5.52	7.26	6.05	6.55	5.90	6.75	5.03	6.75	
Firozabad	Eka	Pendat	3.45	1.78	3.86	1.50	1.40	0.87	1.49	1.17	2.50	
Firozabad	Eka	Pilakhtra	0.00	6.62	8.02	7.70	7.65	7.40	0.00	5.88	7.76	
Firozabad	Jasrana	Jasrana			6.42	5.70	6.05	6.14	6.65	4.02		
Firozabad	Jasrana	Kursiyari			2.38	1.58	1.40	1.44	1.55	1.69		
Firozabad	Jasrana	Patiekara			5.10	4.91	3.98	2.93	4.63	3.86		
Firozabad	Madnapur	Madanpur	7.30	7.17	8.02	4.78	7.00	5.36	7.28	5.17	7.67	
Firozabad	Madnapur	Urawar-2	14.05	13.48	14.70	14.04	0.00	14.23	14.30	12.84	0.00	
Firozabad	Narkhi	Nagla Beech			14.86	14.15	14.44	15.22	0.00	0.00		
Firozabad	Narkhi	Narkhi			14.76	13.75	14.32	14.66	15.39	14.52		
Firozabad	Shikohabad	Labhua Piezo			10.67	6.90	9.77	8.05	9.43	6.30		
Firozabad	Shikohabad	Lambhua			0.00	0.00	8.92	7.17	8.59	5.60		
Firozabad	Shikohabad	Munda			9.04	7.76	9.02	6.66	9.25	5.86		
Firozabad	Shikohabad	Naurangi Ghat -2			0.00	0.00	12.35	12.17	12.27	10.90		
Firozabad	Shikohabad	Noorpur			0.00	0.00	10.52	10.00	10.97	8.76		
Firozabad	Shikohabad	Shikohabad			10.08	0.00	0.00	0.00	0.00	0.00		
Firozabad	Tundla	Deokhera			15.05	14.20	14.47	14.62	14.84	14.60		
Hathras	Hassayan	Mohanpur	2.65	0.90	3.35	2.36	3.45	1.70	3.65	0.80	-	-
Hathras	Hassayan	Purbilpur	4.15	2.10	6.10		0.00	0.00	7.30	7.60	0.00	8.30
Hathras	Hathras	Hathas ITI Roa	0.00	12.75	0.00	0.00	0.00	0.00	0.00	0.00	2.05	4.40
Hathras	Hathras	Hathras JN.	11.55	11.70	15.80	13.70	16.05	14.10	0.00	0.00	1.70	2.50
Hathras	Hathras	Hathras Jalesar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	4.50



Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Hathras	Hathras	Ladpur	8.00	8.20	0.00	0.00	9.65	9.85	0.00	0.00	13.95	0.00
Hathras	Hathras	Maho	5.65	4.85	7.65	6.20	7.15	7.15	0.00	0.00	0.00	0.00
Hathras	Mursan	Chandapa PZ	15.75	15.20	15.70	15.35	13.15	15.20	0.00	0.00	15.30	16.00
Hathras	Mursan	Dyalpur	11.70	12.35	0.00	0.00	0.00	0.00	15.00	14.00	13.40	14.60
Hathras	Mursan	Hatisha	11.45	9.80	11.60	12.80	12.10	12.95	13.00	12.00	10.80	14.90
Hathras	Mursan	Mursan-PZ	12.20	11.65	12.40	11.94	12.70	13.10	14.00	13.00	11.80	11.65
Hathras	Mursan	Mursan-OW	10.80	9.95	11.20	11.28	11.50	11.90	12.00	11.00	14.35	0.00
Hathras	Mursan	Tuksan	0.00	6.00	9.10	7.75	8.70	9.20	10.00	9.00	0.00	0.00
Hathras	Sasni	Hanuman Choki P			17.40	17.35	16.50	15.75	0.00	0.00		
Hathras	Sasni	Ruheri-2 Piezo			12.70	12.70	13.45	13.25	0.00	0.00		
Hathras	Sasni	Samamaee PZ			0.00	22.00	22.35	22.00	0.00	0.00		
Hathras	Sasni	Sasni-2 PZ			0.00	0.00	18.80	18.75	0.00	0.00		
Hathras	Sasni	Thulai			0.00	0.00	12.40	11.90	0.00	0.00		
Hathras	Sadabad	Geegla			0.00	20.05	0.00	0.00	0.00	0.00		
Hathras	Sadabad	Kursanda			0.00	0.00	22.65	21.50	23.00	21.00		
Hathras	Sadabad	Meerpur Piezo			19.00	18.35	18.80	17.30	0.00	0.00		
Hathras	Sadabad	Naugaon Piezo			20.45	20.35	21.60	22.25	23.00	22.70		
Hathras	Sadabad	Sadabad-1			0.00	0.00	20.75	20.05	21.55	21.80		
Hathras	Sadabad	Sadabad-1 Piezo			21.70	0.00	20.55	20.70	22.00	21.80		
Hathras	Sadabad	Unchagaon-2 PZ			0.00	5.50	0.00	0.00	0.00	0.00		
Hathras	Sikandrarao	Agsauli			5.50	5.45	5.10	4.45	4.80	1.45		
Hathras	Sikandrarao	Bhatipura			7.10	7.15	5.90	2.60	5.20	2.00		
Hathras	Sikandrarao	Purdilnagar			7.30	4.95	7.70	5.10	0.00	0.00		
Hathras	Sikandrarao	Sikandrarao			0.00	0.00	0.00	0.00	5.60	1.65		
Hathras	Sikandrarao	Sujawalpur			0.00	0.00	0.00	0.00	8.80	9.25		
Hathras	Sahpau	Madhabhoj Piezo			10.00	10.80	0.00	0.00	0.00	0.00		
Hathras	Sahpau	Sahpau-2 Piezo			13.30	14.65	15.30	15.40	15.95	15.55		
Kannauj	Chhibramau	Bhojpur	8.05	6.85	7.95	7.05	8.35	8.15	8.25	7.45	8.05	7.55
Kannauj	Chhibramau	Chhibramau	12.60	11.45	0.00	0.00	0.00	0.00			13.40	12.80
Kannauj	Chhibramau	Chhibramau -PZ			13.20	12.10	13.30	12.65				
Kannauj	Chhibramau	Dalupur	9.90	8.60	9.90	8.65	11.60	10.56	10.65	10.00	11.50	10.90
Kannauj	Chhibramau	Karmullapur-2	17.25	16.35	18.00	16.40	18.70	17.10	18.85	17.30	0.00	0.00



Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Kannauj	Chhibramau	Randherpur Piez	10.90	10.45	11.80	10.90	11.75	10.70	11.90	11.40	12.30	11.80
Kannauj	Haseren	Gahpura	6.70	3.35	4.75	3.70	4.95	3.70	5.50	4.90	5.60	5.20
Kannauj	Haseren	Haseren	4.70	1.60	3.05	1.85	4.00	3.70	4.35	3.20	4.10	4.00
Kannauj	Haseren	Lelepur			4.50	3.50	0.00	0.00				
Kannauj	Jalalabad	Gorayapur	17.50	16.75	18.15	16.80	18.10	16.70	17.35	16.10	18.70	16.60
Kannauj	Jalalabad	Jalalabad Piezo	17.55	16.91	18.25	17.90	19.10	18.30	18.90	18.40	18.15	19.00
Kannauj	Jalalabad	Jasoda Piezo			0.00	0.00	0.00	0.00				
Kannauj	Jalalabad	Jewa Piezo	17.95	17.00	18.20	17.70	19.60	19.30	19.90	19.50	20.00	0.00
Kannauj	Jalalabad	Kolhapur	14.35	13.10	14.36	13.25	14.05	13.31	13.90	13.35	0.00	0.00
Kannauj	Kannauj	Kannauj Piezo			11.55	11.10	0.00	0.00				
Kannauj	Kannauj	Nera Gaon			16.99	16.59	0.00	0.00				
Kannauj	Kannauj	Phagua			10.99	9.59	0.00	0.00				
Kannauj	Kannauj	Tikhuwa			16.99	16.09	17.40	16.69	18.10	16.74		
Kannauj	Saurikh	Bhaulpur	10.05		0.00	0.00	0.00	0.00				
Kannauj	Saurikh	Kandhai Ka Nagl	3.50	1.40	3.12	1.80	3.00	2.00	3.15		0.00	0.00
Kannauj	Saurikh	Khirney	2.45	1.40	3.97	2.65	4.40	3.30	4.55	3.55	4.35	3.95
Kannauj	Saurikh	Kirrana	2.70	1.00	2.49	0.75	2.50	1.30	2.45	0.80	1.58	1.50
Kannauj	Saurikh	Kisae	9.18	8.58	10.88	10.23	10.98	9.88	11.03	10.28	11.18	10.66
Kannauj	Saurikh	Pat Gadiya	9.95	7.60	9.65	7.90	8.70	7.65	8.95	8.00	8.90	8.15
Kannauj	Saurikh	Saurikh	6.65	5.20	6.18	5.48	6.33	5.28	7.28	6.78	7.38	6.99
Kannauj	Talgram	Muradganj -2	18.65	17.15	18.05	17.25	19.22	18.47	19.31	19.00	19.60	19.29
Kannauj	Talgram	Shayamnagar	7.05	6.50	8.10	7.00	9.02	7.41	9.00	6.40	7.90	6.48
Kannauj	Umarda	A Gaus	3.45	2.25	3.70	3.05	3.75	3.25	3.55	2.65	3.30	3.25
Kannauj	Umarda	Daulatpur			14.92	14.62	14.87	14.68				
Kannauj	Umarda	Khair Nagar-1	6.80	5.95	0.00	0.00	0.00	0.00			7.35	6.60
Kannauj	Umarda	Khair Nagar-2			6.90	6.20	7.80	6.80	7.40	6.50		
Kannauj	Umarda	Tirwa	7.35	6.20	7.35	6.15	7.40	6.70	7.25	6.10	7.00	6.80
Kannauj	Gagarapur	Naurangpur	9.55	8.30	9.65	8.65	10.23	9.15	9.80	9.20	0.00	0.00
Kannauj	Gagarapur	Sarayan Baramau	11.90	10.90	12.00	11.00	0.00	0.00			0.00	0.00
Kanpur Dehat	Akbarpur	Akbarpur BL.CPM			0.00	0.00	6.00	3.35	5.97	2.05		
Kanpur Dehat	Akbarpur	Akbarpur-1			0.00	0.00	0.00	0.00	9.40	5.50		
Kanpur Dehat	Akbarpur	Banar Alipur Pizo			0.00	0.00		0.00	7.10	2.05		



Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Kanpur Dehat	Akbarpur	Bara			6.95	6.40	7.65	7.25	8.50	3.65		
Kanpur Dehat	Akbarpur	Baraula Akbarpur			7.40	6.95	8.65	7.75	9.40	5.50		
Kanpur Dehat	Akbarpur	Kisanpur			8.45	8.40	9.85	9.30				
Kanpur Dehat	Akbarpur	Lakpur / Patterpur			10.82	8.57	11.80	10.45				
Kanpur Dehat	Akbarpur	Mati Kishanpur			5.45	3.40	5.85	4.40	6.00	1.90		
Kanpur Dehat	Akbarpur	Mohammadpur			0.00	0.00	0.00	0.00	10.20	5.00		
Kanpur Dehat	Akbarpur	Nabipur			4.00	0.80	0.00	0.00				
Kanpur Dehat	Akbarpur	Roora			6.55	4.32	7.28	5.85	7.97	3.90		
Kanpur Dehat	Akbarpur	Vikas Bhawan Mati-P			0.00	0.00	5.75	4.95	4.92	0.75		
Kanpur Dehat	Amraudha	Atwa-Piezo			0.00	0.00	22.20	21.70	22.40	19.00		
Kanpur Dehat	Amraudha	Bhognipur	18.52	17.40	18.40	15.90	17.25	15.15	19.35	12.15	16.85	15.05
Kanpur Dehat	Amraudha	Block Campur-Pizo			0.00	0.00	12.10	11.80	12.00	3.90		
Kanpur Dehat	Amraudha	Mach-Piezo			0.00	0.00	7.75	6.85	7.55	6.55		
Kanpur Dehat	Amraudha	Moosanagar	23.03	22.60	23.10	21.05	23.70	23.20	24.00	23.50	24.90	23.00
Kanpur Dehat	Amraudha	Piprigaon	18.93	18.70	20.05	19.80	21.40	19.60	21.45	19.15	20.75	20.15
Kanpur Dehat	Amraudha	Saraye-Piezo			0.00	0.00	25.85	24.75	26.11	24.42		
Kanpur Dehat	Sarwankhera	Arya nagar			0.00	0.00	4.92	2.34				
Kanpur Dehat	Sarwankhera	Aryanagar			4.65	4.62	0.00	0.00				
Kanpur Dehat	Sarwankhera	Dauri			3.24	2.90	3.98	2.75	7.40	5.15		
Kanpur Dehat	Sarwankhera	Kamalpur			4.35	3.32	3.87	2.18		4.30		
Kanpur Dehat	Sarwankhera	Kasma			0.00	0.00	0.00	0.00				
Kanpur Dehat	Sarwankhera	Kundanpur			3.55	3.32	3.87	2.18	9.10	7.80		
Kanpur Dehat	Sarwankhera	Mainath			3.50	3.30	4.08	3.35				
Kanpur Dehat	Sarwankhera	Mohana			4.70	3.05	4.45	3.50	5.05	2.10		
Kanpur Dehat	Sarwankhera	Sarwankhera Bl			0.00	0.00	3.65	2.95	4.00	2.95		
Kanpur Dehat	Drapur	Akaru-Piezo			0.00	0.00	5.40	0.00	3.90	2.05		



Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Kanpur Dehat	Drapur	Ambiyapur -Piezo			0.00	0.00	8.50	8.25	9.35	5.90		
Kanpur Dehat	Drapur	Bahiri Umri-Pie			0.00	0.00	9.85	8.10	10.45	7.20		
Kanpur Dehat	Drapur	Bharawal			14.58	14.16	0.00	0.00				
Kanpur Dehat	Drapur	Chilauli	6.65	5.09	10.40	8.35	11.50	10.90	14.00	9.75	11.90	10.05
Kanpur Dehat	Drapur	Derapur	12.25	10.52	11.35	10.30	13.65	12.95			0.00	0.00
Kanpur Dehat	Drapur	Fatehpur -Piezo			0.00	0.00	12.20	11.95	13.35	10.40		
Kanpur Dehat	Drapur	Larhapur -Piezo			0.00	0.00	15.35	14.30	16.50	11.75		
Kanpur Dehat	Drapur	Mohai (Mahua)-PO			0.00	0.00	8.30	6.80	8.35	5.05		
Kanpur Dehat	Maitha	Asai Anupur	5.90	4.85	5.80	4.30	6.00	5.30		1.80	0.00	0.00
Kanpur Dehat	Maitha	Aurangabad	3.33	2.60	3.63	1.93	4.18	4.03	4.28	1.63	2.80	1.83
Kanpur Dehat	Maitha	Beri Baghpur	4.45	3.70	4.45	3.75	6.15	5.35	5.65	2.15	4.95	4.05
Kanpur Dehat	Maitha	Beri Saway			3.75	3.30	5.10	3.15	5.05	1.25		
Kanpur Dehat	Maitha	Debinpur			8.61	7.15	9.00	8.08	9.95	7.20		
Kanpur Dehat	Maitha	Devipur	6.60	6.30	6.55	5.40	7.48	6.90	7.50	5.90	7.00	5.30
Kanpur Dehat	Maitha	Hathika			7.85	7.40	8.55	7.70		3.75		
Kanpur Dehat	Maitha	Maitha	4.77	4.02	4.07	3.47	4.12	4.09	6.20	2.17	4.42	2.97
Kanpur Dehat	Maitha	Maitha BL. CMP -P			0.00	0.00	4.05	3.65	5.45	3.75		
Kanpur Dehat	Maitha	Pratappur	5.85	4035.00	5.45	3.75	5.85	5.35	6.85	2.30	5.85	3.95
Kanpur Dehat	Maitha	Saitwanpur	3.70	2.53	3.90	1.88	4.00	3.80	4.20	1.15	3.45	2.40
Kanpur Dehat	Maitha	Shivli	5.80	3.80	5.80	3.70	6.08	5.10	6.40	2.10	5.20	4.10
Kanpur Dehat	Maitha	Shubhan			6.30	5.15		0.00				
Kanpur Dehat	Maitha	Barba Rasoolpur-P			0.00	0.00	7.45	6.30	8.00	4.85		
Kanpur Dehat	Maitha	Deendh	11.70	10.75	11.70	10.63	12.95	12.70	13.40	12.50	13.10	12.90
Kanpur Dehat	Maitha	Dhanwarpur -Piezo			0.00	0.00	14.45	14.30	14.95	13.50		
Kanpur Dehat	Maitha	Ghar-Piezo			0.00	0.00	17.25	16.50	19.90	13.50		
Kanpur Dehat	Maitha	Gurugaon -Piezo			0.00	0.00	10.40	9.95	10.70			

Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Kanpur Dehat	Maitha	Jurawalpurva-P			0.00	0.00	8.40	8.00	8.05	7.95		
Kanpur Dehat	Maitha	Malasa	17.75	16.41	17.72	17.20	19.72	19.20	20.50	18.25	20.25	18.60
Kanpur Dehat	Maitha	Nera Kripal-Pie			0.00	0.00	16.90	16.80	17.40	16.30		
Kanpur Dehat	Maitha	Saidalipur	12.50	11.00	12.75	10.15	15.30	13.30	15.73	14.10	17.10	16.00
Kanpur Dehat	Jhinhak	Banipara-2			11.15	10.73	11.30	10.60	11.25	10.65		
Kanpur Dehat	Jhinhak	BazetJusu			10.40	9.46	10.70	9.95	11.70	11.35		
Kanpur Dehat	Jhinhak	Bhindakuwan			10.10	9.94	10.84	10.30		8.84		
Kanpur Dehat	Jhinhak	Chirkhiri			3.60	2.75	3.92	2.90	5.74	2.65		
Kanpur Dehat	Jhinhak	Jhinhak			4.65	3.00	5.45	3.55	5.60	1.90		
Kanpur Dehat	Jhinhak	Jhinhak Piezo			0.00	0.00	0.00	0.00				
Kanpur Dehat	Jhinhak	Kariyajhal			10.21	8.54	11.71	10.81	12.10	10.76		
Kanpur Dehat	Jhinhak	Khamalla Piezo			3.25	2.82	0.00	0.00	4.37	1.66		
Kanpur Dehat	Jhinhak	Kishora Kuntali			12.50	12.75	0.00	0.00				
Kanpur Dehat	Jhinhak	Mangalpur			4.34	1.18	4.70	4.10	4.83	0.90		
Kanpur Dehat	Jhinhak	Mangalpur Piezo			3.65	3.00	4.30	3.32	4.95	2.20		
Kanpur Dehat	Jhinhak	Mundera			4.00	1.52	3.80	2.23	3.96	0.18		
Kanpur Dehat	Rajpur	Afsaria Gaon			17.51	17.59	0.00	0.00		16.66		
Kanpur Dehat	Rajpur	Jallapur	16.77	16.10	17.33	16.33	17.72	17.07	17.89	14.00	15.98	16.05
Kanpur Dehat	Rajpur	Khojaphool	7.12	6.72	7.96	6.83	0.00	0.00			0.00	0.00
Kanpur Dehat	Rajpur	Rajpur			16.88	0.00	17.18	16.15	19.14	11.04		
Kanpur Dehat	Rajpur	Rasdhan	8.10	7.99	9.19	8.27	8.66	8.03			7.75	8.00
Kanpur Dehat	Rajpur	Sikandra-1	5.80	4.67	5.89	4.15	6.50	6.07		6.85	0.00	0.00
Kanpur Dehat	Rajpur	Sikandra-2			0.00	0.00	0.00	0.00		3.55		
Kanpur Dehat	Rajpur	Umarpur			25.24	23.76	23.99	23.06		21.66		
Kanpur Dehat	Rasoolabad	Bhikdeo			7.76	6.90	8.53	7.40	8.86	5.05		
Kanpur Dehat	Rasoolabad	Bilha			4.57	1.43	3.86	1.21	3.76	0.51		



Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Kanpur Dehat	Rasoolabad	Rasoolabad			4.90	3.17	5.70	3.58	5.85	2.60		
Kanpur Dehat	Rasoolabad	Shahwajpur			1.95	0.70	2.45	1.00	2.60	1.00		
Kanpur Dehat	Sandalpur	Araji Bichhiyap	4.40	7.30	8.45	7.68	8.55	8.01	8.70	6.30	8.15	7.50
Kanpur Dehat	Sandalpur	Bharawal	13.68	11.33	13.28	12.16	0.00	0.00			0.00	0.00
Kanpur Dehat	Sandalpur	Dilwalkhanpur			5.85	2.30	5.70	2.90	5.95	1.40		
Kanpur Dehat	Sandalpur	Hawashpur			8.00	7.10	8.55	7.75	8.70	5.85		
Kanpur Dehat	Sandalpur	Jokha			6.00	5.50	6.80	6.15				
Kanpur Dehat	Sandalpur	Mundera			0.00	0.00	0.00	0.00	12.70	5.70		
Kanpur Dehat	Sandalpur	P.School Sandal			0.00	0.00	12.65	11.55		6.40		
Kanpur Dehat	Sandalpur	Palhanapur			12.30	11.15	12.30	11.05	10.60	2.50		
Kanpur Dehat	Sandalpur	Sandalpur			8.65	7.70	9.55	8.70	4.30			
Kanpur Nagar	Bhitargaon	Kudhni	7.79	7.27	8.30	7.24	8.07	6.93	12.70	6.80	8.67	6.85
Kanpur Nagar	Bhitargaon	Kuwa Khera-1			0.00	0.00		0.00		19.72		
Kanpur Nagar	Bhitargaon	Kuwa Khera-2			21.17	21.09	23.26	22.46				
Kanpur Nagar	Bhitargaon	Sadh	2.81	0.59	3.04	0.93	3.55	1.79	3.48	0.58	2.40	0.65
Kanpur Nagar	Billhaur	Araul			0.00	0.00	0.00	0.00	21.87	19.09		
Kanpur Nagar	Billhaur	Baidhi Alipur			6.75	6.40	7.57	6.87		6.68		
Kanpur Nagar	Billhaur	Billhaur-1			9.10	7.47	8.29	6.95	10.97	9.12		
Kanpur Nagar	Billhaur	Billhaur-2	9.70	7.77	9.10	7.40	9.27	8.10	10.87	8.27	9.57	8.27
Kanpur Nagar	Billhaur	Dadhika			9.84	8.63	0.00	0.00				
Kanpur Nagar	Billhaur	Dhamni Niwada			5.36	4.05	5.92	4.05	6.02	1.72		
Kanpur Nagar	Billhaur	Khajuri			7.35	5.83	6.99	5.67	6.42	3.87		
Kanpur Nagar	Billhaur	Makunpur	9.60	7.85	9.67	8.47	9.79	8.49	10.53	9.49	9.91	9.69
Kanpur Nagar	Billhaur	Saibasw OW	13.67	12.19	13.12	11.70	13.57	12.17	13.97	13.87	13.61	12.19
Kanpur Nagar	Billhaur	Uttaripur OW	3.72	1.30	3.51	1.90	4.42	1.92			5.72	1.81
Kanpur Nagar	Chaubepur	Chaubepur-1	10.80	9.70	11.30	10.06	11.05	10.10		10.70	0.00	0.00

Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Kanpur Nagar	Chaubepur	Chaubepur-2			12.05	11.98	12.65	0.00		12.20		
Kanpur Nagar	Chaubepur	Naveri Muiyan			15.52	0.00	0.00	0.00				
Kanpur Nagar	Chaubepur	Viroh			2.70	1.55	2.15	1.25	1.95	1.60		
Kanpur Nagar	Shivrajpur	Bhasau Piezo	5.76	4.22	0.00	0.00	0.00	0.00			6.10	4.67
Kanpur Nagar	Shivrajpur	Biramaui	7.70	5.90	7.65	5.97	8.55	6.95			7.36	6.61
Kanpur Nagar	Shivrajpur	Denkarpur Piezo			0.00	0.00	0.00	0.00	10.80	10.15		
Kanpur Nagar	Shivrajpur	Dilipnagar	7.41	6.37	7.45	6.44	7.85	6.31	7.95	6.95	7.78	7.22
Kanpur Nagar	Shivrajpur	Dudhiyana Piezo			7.89	7.80	0.00	0.00	0.79	1.10		
Kanpur Nagar	Shivrajpur	Nedeyha Buzurg			7.93	6.88	7.36	6.48	7.80	3.02		
Kanpur Nagar	Shivrajpur	Nausana			5.98	5.30	6.30	5.86				
Kanpur Nagar	Shivrajpur	Shivrajpur	7.51	5.48	7.35	5.88	7.90	6.14		6.62	7.18	5.55
Kanpur Nagar	Shivrajpur	Sheorajpur Piez			0.00	0.00	0.00	0.00	7.15	3.18		
Kanpur Nagar	Bidhnoo	Bidhnoo			4.76	2.96	5.16	3.25	5.16	1.16		
Kanpur Nagar	Bidhnoo	Hardauli			6.50	5.10	0.00	0.00				
Kanpur Nagar	Bidhnoo	Manjhawan			5.50	3.40	0.00	0.00	9.00	3.00		
Kanpur Nagar	Bidhnoo	Paharpur			7.45	6.21	8.60	8.15		6.85		
Kanpur Nagar	Bidhnoo	Ramaipur			7.90	7.50	8.20	6.95		2.20		
Kanpur Nagar	Kalyanpur	Bithoor			0.00	8.61	0.00	0.00				
Kanpur Nagar	Kalyanpur	Kalyanpur	7.61	5.54	7.82	7.45	9.22	7.30	9.82	9.40	10.11	9.56
Kanpur Nagar	Kalyanpur	Kalyanpur PZ			13.76	12.08	16.00	15.50	15.90	15.30		
Kanpur Nagar	Kalyanpur	Khyora			7.37	0.00	0.00	0.00				
Kanpur Nagar	Kalyanpur	Mandhana	9.86	8.33	9.99	8.90	10.67	10.41			0.00	0.00
Kanpur Nagar	Kalyanpur	Panki	7.66	6.09	7.65	5.92	8.31	7.23		6.28	0.00	0.00
Kanpur Nagar	Kalyanpur	Parag Dery			20.85	21.10	0.00	0.00				
Kanpur Nagar	Kalyanpur	Ploytecnic			19.00	19.85	21.74	21.30				
Kanpur Nagar	Kalyanpur	Rooppur	12.79	11.26	12.86	11.27	13.52	13.10	14.10	12.07	12.65	12.35



Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Kanpur Nagar	Kalyanpur	Sachendi			0.00	0.00	0.00	0.00	5.25	2.26		
Kanpur Nagar	Kalyanpur	Sajanwan			21.65	22.10	23.90	23.60				
Kanpur Nagar	Kalyanpur	Tikkanpurwa	10.65	8.74	10.95	10.51	11.38	10.20	11.65	9.31	11.22	8.85
Kanpur Nagar	Kalyanpur	Vakunthpur	5.50	3.58	5.59	5.30	6.17	5.54		3.60	5.49	4.85
Kanpur Nagar	Sarsol	Dehta Purwabaza			9.00	8.59	0.00	0.00				
Kanpur Nagar	Sarsol	Khojaupur PZ			8.80	8.01	9.70	8.80	8.95	7.60		
Kanpur Nagar	Sarsol	Maharajpur			11.60	0.00	0.00	0.00				
Kanpur Nagar	Sarsol	Maharajpur Piez			12.60	1.45	14.10	13.60	14.75	13.10		
Kanpur Nagar	Sarsol	Narbal			15.15	14.20	0.00	0.00				
Kanpur Nagar	Sarsol	Palhapur			10.40	8.59	11.95	10.45	15.45	13.00		
Kanpur Nagar	Sarsol	Prempur Piezo			19.20	18.61	19.75	18.15	21.35	21.10		
Kanpur Nagar	Sarsol	Sarsaul Piezo			0.00	0.00	0.00	0.00	19.35	8.60		
Kanpur Nagar	Sarsol	Tauns Piezo			10.10	10.01	11.70	11.10	13.60	11.90		
Kanpur Nagar	Kakaban	Kakaban	4.02	2.11	3.50	1.99	3.75	2.77	4.30	4.20	3.65	3.70
Kanpur Nagar	Kakaban	Lodhan Purwa	5.68	4.44	5.06	4.56	5.83	5.38	7.80	6.83	6.61	6.53
Kanpur Nagar	Kakaban	Tista	5.35	4.96	5.88	5.36	0.00	0.00			0.00	0.00
Kanpur Nagar	Ghatampur	Gajaila	8.30	7.40	9.26	8.44	9.36	8.29	9.86	6.84	9.14	8.31
Kanpur Nagar	Ghatampur	Ghatampur	20.41	17.82	19.60	17.55	22.16	21.04			0.00	0.00
Kanpur Nagar	Ghatampur	Lalaipur-2			19.87	19.80	21.18	20.40	22.13	21.20		
Kanpur Nagar	Ghatampur	Navedi Moigaon			16.22	15.92	16.93	14.66	17.38	14.35		
Kanpur Nagar	Ghatampur	Paras - 1			6.40	5.18		0.00				
Kanpur Nagar	Ghatampur	Paras - 2			0.00	0.00	13.04	10.94				
Kanpur Nagar	Ghatampur	Rampur	18.72	17.95	19.47	16.97	19.09	17.84	18.88	16.88	18.78	18.00
Kanpur Nagar	Ghatampur	Sajeti			27.30	27.21	28.78	28.08	29.61	8.53		
Kanpur Nagar	Patara	Akberpur Jhabua			12.28	12.28	13.78	10.85				
Kanpur Nagar	Patara	Patara	8.19	6.20	8.08	7.35	0.00	0.00			0.00	0.00

Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Kanpur Nagar	Patara	Ram Sari	8.95	6.60	8.62	7.50	8.35	7.20			10.48	8.40
Kanpur Nagar	Patara	Tejpur			8.98	7.42	0.00	0.00				
Kanpur Nagar	City Area	Avas Vikas -17K			0.00	0.00	13.95	10.85				
Kanpur Nagar	City Area	CS Azad AG & Tec			0.00	0.00	23.25	23.00				
Kanpur Nagar	City Area	Dalhan Anusndha			0.00	0.00	18.50	18.00				
Kanpur Nagar	City Area	Govt Polytech Ra			0.00	0.00	21.70	21.30				
Kanpur Nagar	City Area	H.B.T.I. Kanpur			0.00	0.00	21.90	19.80				
Kanpur Nagar	City Area	Heart Inst. Rawa			0.00	0.00	24.85	24.45				
Kanpur Nagar	City Area	IIT Kalyanpur			0.00	0.00	10.70	10.65				
Kanpur Nagar	City Area	J.D.S.V .Mandir			0.00	0.00	21.90	21.25				
Kanpur Nagar	City Area	Jalnigam Colony			0.00	0.00	8.25	7.30				
Kanpur Nagar	City Area	N. Leather INS.S			0.00	0.00	12.70	11.40				
Kanpur Nagar	City Area	N.Sug.Inst. Kaly			0.00	0.00	13.80	13.65				
Kanpur Nagar	City Area	PR School RK Na			0.00	0.00	8.20	7.55				
Kanpur Nagar	City Area	Rtnapur Sub ST			0.00	0.00	6.05	5.45				
Kanpur Nagar	City Area	Sani Mandir Kal			0.00	0.00	7.60	7.45				
Kanpur Nagar	City Area	Thermal Power RC			0.00	0.00	6.00	5.34				
Kanpur Nagar	City Area	UPSIDC Udoyonag			0.00	0.00	0.00	0.00				
Kaushambi	Chail	Chail			22.70	22.05	23.85	22.40	23.94	0.00		
Kaushambi	Chail	Charwan			0.00	0.00				14.90		
Kaushambi	Chail	Fathehpur (Shahapur Kas)			21.25	19.39	21.00	20.80		17.80		
Kaushambi	Chail	Lalapur			0.00	0.00	0.00	22.03	24.40	18.41		
Kaushambi	Chail	Mohammadpur			23.21		24.33	23.90	24.28	23.20		
Kaushambi	Chail	Mohammadpur			0.00	0.00	24.33	23.90	24.28	20.10		
Kaushambi	Chail	Shekhpur Rasoolpur			0.00	0.00	0.00	17.45	18.41	18.20		
Kaushambi	Kara	Ajuha (Mandi Samiti)			0.00	0.00	0.00	0.00	16.55	13.60	15.80	15.40
Kaushambi	Kara	Alipur Jeta-2			0.00	0.00		0.00		15.55		
Kaushambi	Kara	Bhadehari			0.00	0.00	0.00	0.00	18.70	17.35	0.00	0.00



Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Kaushambi	Kara	Chak Mainkpur Saiyya			0.00	0.00	0.00	0.00	0.00	0.00	20.80	20.50
Kaushambi	Kara	Dorma	7.56	3.90	6.45	4.00	4.70	3.90	5.30	4.20	5.70	4.60
Kaushambi	Kara	Kanwar (Jorwarpur)			0.00	0.00	0.00	0.00	14.55	11.10	13.45	13.85
Kaushambi	Kara	Kara	17.65	13.60	15.70	14.85	16.35	15.50	16.30	14.55	15.95	15.40
Kaushambi	Kara	Lehdari	16.35	14.55	16.45	15.35	16.50	16.00		17.50	0.00	15.45
Kaushambi	Kara	Narsinghpur Kachhuwa			0.00	0.00	0.00	0.00	20.60	16.55	18.45	17.45
Kaushambi	Kara	Pathrawan			0.00	0.00	0.00	0.00	16.30	12.80	15.30	14.60
Kaushambi	Kara	Saini			0.00	0.00	0.00	0.00	0.00	12.45		
Kaushambi	Kara	Sewari Bujurg	16.45	16.40	0.00	0.00	0.00	0.00	0.00	17.05	13.65	12.70
Kaushambi	Kara	Shahjadapur	15.85	14.90	16.15	15.45	16.40	15.20	16.80	14.30	15.35	14.65
Kaushambi	Kara	Tanda	9.35	9.10	11.40	12.05	14.05	11.05		10.65	12.65	11.95
Kaushambi	Kaushambi	Bara			6.95	4.90	6.60	4.10	6.90	5.40		
Kaushambi	Kaushambi	Batbandhuri			12.62			0.00		0.00		
Kaushambi	Kaushambi	Kaushambi			11.81		12.01		13.06	11.36		
Kaushambi	Kaushambi	Mahila			21.30	20.40	21.60	20.35	21.35	19.10		
Kaushambi	Kaushambi	Myohar			0.00	0.00	0.00	0.00	14.50	13.25		
Kaushambi	Kaushambi	Pewali Asnatpur			11.10	8.20	9.20	7.50	8.70	7.60		
Kaushambi	Kaushambi	Raksawara			0.00	0.00	0.00	11.40	12.37	11.02		
Kaushambi	Manjhanpur	Jamdua			11.80	12.10		0.00	0.00	0.00		
Kaushambi	Manjhanpur	Karari			14.85	15.20		0.00	0.00	0.00		
Kaushambi	Manjhanpur	Kotari Paschim			15.35	14.75		0.00	0.00	0.00		
Kaushambi	Manjhanpur	Manjhanpur Block			11.50	11.90	14.10	13.65	15.40	15.05		
Kaushambi	Manjhanpur	Manjhanpur DM Office			0.00	0.00	17.95	17.10	18.70	16.80		
Kaushambi	Manjhanpur	Tewa			12.60	11.35		0.00	0.00	0.00		
Kaushambi	Manjhanpur	Yusufpur			11.00	8.10	10.35	9.05	11.00	7.70		
Kaushambi	Mooratganj	Kasia			0.00	0.00	17.27	16.95	18.31	16.41		
Kaushambi	Mooratganj	Mahgaon			0.00	19.85	20.38	19.71	21.12	19.40		
Kaushambi	Mooratganj	Palhana			0.00	18.97	19.55	19.04	20.42	18.55		
Kaushambi	Mooratganj	Parsara			5.15	2.85	4.10	3.70	6.70	3.15		
Kaushambi	Mooratganj	Patti P arwejabad			0.00	0.00	0.00	0.00	15.80	12.80		
Kaushambi	Mooratganj	Samaspur			16.18	13.77	17.85	14.00	17.70	12.58		

Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Kaushambi	Nevada	Baniram Katra	11.62	11.25	13.75	12.90	13.92	12.96	14.78	13.00	13.90	14.10
Kaushambi	Nevada	Durgapur			0.00	0.00	0.00	23.17	24.45	22.80	0.00	0.00
Kaushambi	Nevada	Nevada	0.00	19.60	0.00	0.00	0.00	0.00	22.77	20.25	21.90	22.19
Kaushambi	Nevada	Nevada Block			0.00	0.00	22.65	21.75	22.90	20.90		
Kaushambi	Nevada	Pera			15.35	16.35	16.70	17.25		14.90		
Kaushambi	Nevada	Pipri			0.00	0.00	0.00	0.00	21.13	16.52	21.45	21.60
Kaushambi	Nevada	Purkhash	10.45	10.38	10.96	11.15	11.60	10.45	12.70	10.92	11.38	11.45
Kaushambi	Nevada	Sarai Akil	11.22	10.00	12.04	11.60	12.85	11.27	12.65	8.80	13.15	11.95
Kaushambi	Nevada	Sarai Yusuf			0.00	0.00	0.00	0.00	0.00	0.00		
Kaushambi	Nevada	Sewathan	20.75	20.20	21.05	20.62	22.17	21.92	23.40	21.45	22.27	22.40
Kaushambi	Nevada	Surseni			0.00	0.00	0.00	17.95	19.25	15.77	17.68	16.90
Kaushambi	Nevada	Tilhapur			0.00	0.00	0.00	0.00	0.00	0.00		
Kaushambi	Nevada	Tilhapur -2			22.08	21.20	22.20	21.85		22.65	23.40	23.20
Kaushambi	Sarasawan	Ajarauli	5.74	4.19	7.64	4.44	8.14	5.39	6.34	5.54	7.14	5.75
Kaushambi	Sarasawan	Baksipar			0.00	0.00	0.00	0.00	0.00	0.00	15.85	16.20
Kaushambi	Sarasawan	Banikhas	7.60	6.05	8.30	6.50	9.40	6.90	8.40	7.70	9.00	6.54
Kaushambi	Sarasawan	Bhagat Ka Purwa	6.35	5.25	6.80	5.40	6.75	4.80	7.85	5.60	7.00	5.70
Kaushambi	Sarasawan	Hinauta	9.25	6.25	9.70	4.30	6.50	4.00	5.90	5.00	7.90	4.20
Kaushambi	Sarasawan	Jafarpur Mahewa	10.15	6.30	11.90	8.10	9.50	8.30	9.00	8.65	10.30	0.00
Kaushambi	Sarasawan	Katri Khurd	26.55	22.80	26.70	23.90	25.10	22.75	24.20	23.30	24.30	24.80
Kaushambi	Sarasawan	Kumhiyawan			0.00	0.00	0.00	0.00	0.00	0.00	10.00	5.60
Kaushambi	Sarasawan	Mahewa Ghat			0.00	15.30	0.00	0.00	0.00	0.00		
Kaushambi	Sarasawan	Pabhausa	16.90	15.30	16.85	15.60	16.55	15.30	16.30	15.15	16.30	15.30
Kaushambi	Sarasawan	Poorab Sharira			0.00	0.00	0.00	0.00	0.00	0.00	6.55	7.35
Kaushambi	Sarasawan	Poorab Sharira	4.30	4.15	5.55	5.95	7.25	6.85	7.85	5.15	8.10	7.70
Kaushambi	Sarasawan	Punwar Chakia			0.00	6.30	0.00	0.00	0.00	0.00		
Kaushambi	Sirathu	Chaknara	6.40	5.10	6.75	5.34	6.45	5.65		5.10	5.65	5.55
Kaushambi	Sirathu	Kaini	9.80	7.60	9.70	8.50	9.65	8.60	9.70	8.80	9.65	8.85
Kaushambi	Sirathu	Kokhraj Thana			17.25	16.05	0.00	0.00	0.00	0.00		
Kaushambi	Sirathu	Korai	16.20	14.70	17.05	16.55	18.35	18.70	20.15	19.20	21.05	19.05
Kaushambi	Sirathu	Mohabbatpur Paeinsa			0.00	0.00	0.00	0.00	0.00	20.95	0.00	0.00
Kaushambi	Sirathu	Niyamtpur PZ	9.45	8.60	9.75	8.85	0.00	0.00	0.00	0.00	0.00	0.00
Kaushambi	Sirathu	Paharpur			0.00	0.00	0.00	0.00	0.00	20.90	0.00	0.00



Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Kaushambi	Sirathu	Rampur Dhamawan			0.00	0.00	0.00	0.00	20.85	19.95	21.60	20.90
Kaushambi	Sirathu	Selrha			0.00	0.00	0.00	0.00	0.00	20.10	0.00	0.00
Kaushambi	Sirathu	Sirathur			0.00	0.00	0.00	0.00	21.45	19.06	20.65	20.95
Mainpuri	Barnahal	Barnahal			18.65	19.00	0.00	0.00	0.00	0.00		
Mainpuri	Barnahal	Bujhiya			1.97	0.87	1.67	1.92	0.47	0.47		
Mainpuri	Barnahal	Dihuli Piezo			18.23	16.88	18.62	0.00	0.00	0.00		
Mainpuri	Bewar	Bewar			5.60	6.25	6.21	6.34	6.49	5.02		
Mainpuri	Bewar	Majhola			3.70	1.95	3.55	1.09	1.26	1.70		
Mainpuri	Bewar	Naviganj			4.20	4.05	0.00	0.00	0.00	0.00		
Mainpuri	Ghiror	Achalpur			7.70	6.45	7.80	8.32	8.25	7.40		
Mainpuri	Ghiror	Bhagwantpur			7.03	5.48	6.88	7.23	6.58	6.28		
Mainpuri	Ghiror	Dannahar			1.06	1.06	1.21	0.71	0.96	0.46		
Mainpuri	Ghiror	Ghiror			6.65	3.50	5.60	4.35	4.85	4.60		
Mainpuri	Jagir (Sagamai)	Ajitganj	0.00	2.20	4.30	1.94	0.00	0.00	0.00	0.00	0.00	0.00
Mainpuri	Jagir (Sagamai)	Bhaunt	0.00	2.26	4.36	2.10	4.51	2.99	4.33	2.46	5.09	2.57
Mainpuri	Jagir (Sagamai)	Chandpur	0.00	4.62	6.10	5.17	6.25	6.44	0.00	0.00	5.12	4.77
Mainpuri	Jagir (Sagamai)	Sagamaee	0.00	1.13	0.00	1.61	0.00	0.00	0.00	0.00	0.00	0.00
Mainpuri	Karahal	Karhal-1	0.00	6.60	0.00	0.00	0.00	0.00	9.23	4.78	8.09	7.05
Mainpuri	Karahal	Karhal-2			7.73	5.58	7.73	7.88	0.00	0.00		
Mainpuri	Karahal	Kurra-1	0.00	3.65	0.00	0.00	0.00	0.00	6.25	3.45	6.46	3.49
Mainpuri	Karahal	Kurra-2			5.00	3.67	5.95	3.55	0.00	0.00		
Mainpuri	Karahal	Souj	0.00	1.45	3.85	2.52	4.20	2.70	3.70	1.90	4.00	2.05
Mainpuri	Karahal	Takrau	0.00	1.95	0.00	1.58	0.00	0.00	0.00	0.00		
Mainpuri	Kishni	Arsara	0.00	3.08	4.45	2.95	4.65	3.68	4.45	1.95	4.42	1.91
Mainpuri	Kishni	Choki Khidarpur	5.41	5.06	6.06	5.56	6.06	5.93	7.08	4.71	6.03	4.96
Mainpuri	Kishni	Kishni	3.10	0.90	2.65	0.70	2.80	1.52	2.06	0.68	3.12	3.00
Mainpuri	Kishni	Kusmara	6.10	5.62	6.35	6.35	0.00	0.00	0.00	0.00		
Mainpuri	Kishni	Saman Katra	0.00	2.02	3.83	1.83	3.55	1.99	2.18	1.43	2.80	1.53
Mainpuri	Kurawli	Bonagaon	2.15	1.38	2.39	2.05	2.85	1.80	2.47	0.95	3.50	1.90
Mainpuri	Kurawli	Kurawali	4.00	1.97	3.90	1.90	1.10	1.00	4.18	2.80	3.75	2.67
Mainpuri	Mainpuri	Ghitoli	5.81	4.96	6.16	4.16	5.66	5.78	6.18	5.06	6.41	6.31
Mainpuri	Mainpuri	Mainpuri	5.28	4.78	4.23	5.13	5.73	5.78	6.27	5.03		

Annexure VI.4

Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Mainpuri	Mainpuri	Odan Mandal	6.70	6.20	7.50	6.60	7.45	7.40	7.90	6.10	7.10	5.91
Mainpuri	Mainpuri	Paronkh	8.65	7.72	8.99	8.25	8.95	9.40	8.55	7.78		
Mainpuri	Sultanganj	Bhogaon			4.10	2.80	5.25	3.34	5.60	2.50		
Mainpuri	Sultanganj	Hannukhera			4.80	3.20	0.00	0.00	0.00	0.00		
Mainpuri	Sultanganj	Jagatpur			0.00	5.95	9.15	8.62	0.00	0.00		
Mainpuri	Sultanganj	Jalalpur			0.00	1.64	4.10	2.12	4.15	2.95		
Mainpuri	Sultanganj	Sultanganj			4.40	2.10	4.32	2.23	4.27	2.57		
Mathura	Baldeo	Baldeo OW			5.20	4.88	8.55	6.80	8.80	4.75		
Mathura	Baldeo	Baldeo Piezo			0.00	0.00	9.44	8.49	9.34	8.34		
Mathura	Baldeo	Bisawar -2 Piezo			0.00	0.00	0.00	0.00	17.44	16.84		
Mathura	Chhata	Chhata Piezo			2.60	2.17	2.75	2.10	0.00	2.00		
Mathura	Chhata	Khaeera			4.20	4.06	4.80	4.00	0.00	3.00		
Mathura	Chhata	Paigaon			3.85	2.21	4.40	2.90	0.00	0.00		
Mathura	Chhata	Paigaon Piezo					0.00		4.00	3.00		
Mathura	Chomuhan	Akbarpur-2			6.85	5.40	6.40	5.45	6.00	4.00		
Mathura	Chomuhan	Sahar			2.45	2.88	3.22	2.55	0.00	0.00		
Mathura	Farah	Barari			6.10	5.42	6.35	6.30	7.00	5.00		
Mathura	Farah	Farah Piezo			0.00	0.00	0.00	0.00	11.00	1.00		
Mathura	Farah	Nagal Chhitarsi			3.25	2.72	3.62	2.70	3.00	1.00		
Mathura	Farah	OL			6.25	5.42	7.61	6.80	6.80	5.45		
Mathura	Govardhan	Ading Piezo			0.00	0.00	0.00	0.00	4.80	4.10		
Mathura	Govardhan	Govardhan -2 PIE			5.00	0.00	6.40	5.45	0.00	0.00		
Mathura	Govardhan	Paintha			4.25		5.80	4.25	4.40	2.85		
Mathura	Govardhan	Shehi			8.65	0.00	6.25	6.05	0.00	0.00		
Mathura	Govardhan	Sonkh Piezo			5.70	5.60	6.95	5.10	5.30	4.30		
Mathura	Mat	Mat-1			16.45	15.11	16.21	16.05	0.00	0.00		
Mathura	Mat	Mat-2 Piezo			15.12		16.27		0.00	0.00		
Mathura	Mat	Neem Gaon			4.85	4.08	5.52	5.10	0.00	0.00		
Mathura	Mat	Sureer Kalan PZ			10.60	0.00	10.52	0.00	0.00	0.00		
Mathura	Mathura	Dhangaon			6.45	5.60	6.10	4.40	0.00	0.00		
Mathura	Mathura	Dhangaon Piezo					0.00	0.00	5.90	4.00		
Mathura	Mathura	Ral			4.80	3.21	3.95	3.20	3.20	1.70		
Mathura	Mathura	Vrindavan			0.00	10.44	0.00	0.00	0.00	0.00		



Block wise Water Level Data in Ramganga Command Area Year 2005-09

District name	Block name	Hydrograph Station	Year-2005		Year-2006		Year-2007		Year-2008		Year-2009	
			Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post
Mathura	Nandgaon	Barasana			6.10	2.15	6.85	6.95	6.85	5.50		
Mathura	Nandgaon	Koshi			4.15	3.19	4.25	3.05	0.00	0.00		
Mathura	Nandgaon	Nandgaon			4.85	4.42	4.25	4.00	4.00	4.20		
Mathura	Nohjhil	Chhanpari			8.25	0.00	0.00	7.80	0.00	0.00		
Mathura	Nohjhil	Kolahar			6.20	0.00	0.00	0.00	0.00	0.00		
Mathura	Nohjhil	Pithora Piezo			0.00	0.00	0.00	0.00	6.45	5.85		
Mathura	Raya	Karab			3.60	3.32	3.25	2.65	1.10	1.50		
Mathura	Raya	Lohvan			18.05	13.12	14.12	13.75	0.00	0.00		
Mathura	Raya	Naglachandu			0.00	5.00	4.00	0.00	0.00	0.00		
Mathura	Raya	Neemgaon			0.00	0.00	7.42	7.34	0.00	0.00		
Mathura	Raya	Pirsua			10.15	9.36	10.85	9.80	11.65	11.00		
Mathura	Raya	Raya-1			9.35	0.00	0.00	0.00	0.00	0.00		
Mathura	Raya	Raya-2 Piezo			0.00	0.00	7.98	7.35	0.00	0.00		
Mathura	Raya	Sonai Piezo			0.00	0.00	9.44	9.35	0.00	0.00		



Annexure VI.5

District-wise Frequency Analysis of Hydrograph Stations According to Depth to Water Level During Pre and Post Monsoon Season (2000-2009)																
Year	No of Station		Frequency (in Meter only)													
	Pre	Post	0-2 (Pre & Post)		2-5 (Pre & Post)		5-8 (Pre & Post)		8-11 (Pre & Post)		11-15 (Pre & Post)		15-20 (Pre & Post)		>20 (Pre & Post)	
1. District Agra																
2009	47	23	0	0	0	0	0	2	0	2	1	1	0	20	46	16
2008	23	21	0	0	0	3	5	4	3	2	8	4	2	3	5	4
2007	19	19	0	0	0	0	5	6	3	1	5	7	4	3	2	2
2006	30	24	0	0	1	1	7	3	6	7	12	3	8	3	8	7
2005	74	75	0	0	2	5	8	10	7	13	7	38	42	4	8	5
2004	78	78	0	0	0	0	9	12	7	8	9	8	45	45	8	4
2003	79	80	0	0	1	3	8	4	15	15	47	48	2	2	5	8
2002	75	74	0	0	2	2	24	7	34	55	1	1	0	1	0	1
2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	57	57	0	0	0	1	3	2	50	46	2	1	0	0	2	0
2. District Aligarh																
2009	35	33	2	4	10	13	7	1	3	2	4	6	8	6	1	1
2008	62	55	2	9	10	11	15	4	9	12	18	10	7	7	1	0
2007	62	62	1	8	11	13	14	8	9	15	17	11	9	7	1	0
2006	47	63	0	5	14	18	10	7	6	14	14	13	2	7	0	1
2005	33	34	1	8	15	11	6	3	3	3	6	7	2	2	0	0
2004	35	34	2	6	13	10	7	5	3	4	7	6	3	3	0	0
2003	31	30	0	7	10	9	9	3	4	4	6	5	2	2	0	0
2002	31	30	0	6	9	4	6	8	6	3	7	6	3	3	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	27	30	0	7	12	9	5	4	3	2	4	5	3	2	0	0
3. District Auraiya																
2009	14	14	0	4	7	4	4	4	2	1	1	1	0	0	0	0
2008	22	22	0	10	4	6	10	2	3	3	4	1	1	0	0	0
2007	70	72	0	4	15	16	24	23	14	12	13	13	4	3	0	0
2006	70	72	0	10	15	19	26	19	13	13	12	10	4	1	0	0
2005	17	17	0	3	8	8	5	3	3	3	1	0	0	0	0	0
2004	17	17	0	4	8	7	5	3	3	3	1	0	0	0	0	0
2003	16	5	0	2	8	7	4	4	3	2	1	0	0	0	0	0
2002	15	16	0	3	9	7	3	5	3	1	3	0	3	0	3	0
2001	17	17	0	5	8	6	6	5	3	1	0	1	0	1	0	1
2000	17	17	0	1	10	10	4	4	3	2	0	0	0	0	0	0
4. District Etah																
2009	10	10	0	1	4	4	3	3	3	2	0	0	0	0	0	0
2008	19	19	0	1	6	7	7	7	5	4	1	0	0	0	0	0
2007	20	20	0	0	5	9	8	5	6	6	1	0	0	0	0	0



District-wise Frequency Analysis of Hydrograph Stations According to Depth to Water Level During Pre and Post Monsoon Season (2000-2009)																
Year	No of Station		Frequency (in Meter only)													
	Pre	Post	0-2 (Pre & Post)		2-5 (Pre & Post)		5-8 (Pre & Post)		8-11 (Pre & Post)		11-15 (Pre & Post)		15-20 (Pre & Post)		>20 (Pre & Post)	
2006	29	27	0	0	6	11	14	13	8	3	1	0	0	0	0	0
2005	15	14	0	2	4	7	8	4	3	1	0	0	0	0	0	0
2004	16	19	0	2	6	11	8	3	2	3	0	0	0	0	0	0
2003	18	19	0	3	4	10	11	3	3	3	0	0	0	0	0	0
2002	14	16	0	0	6	12	6	1	2	3	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	16	16	0	1	5	9	8	5	3	1	0	0	0	0	0	0
5. District Etawah																
2009	22	21	1	3	3	4	6	5	3	1	1	1	1	1	7	6
2008	80	79	0	28	22	15	21	10	11	5	5	2	3	4	17	15
2007	90	88	0	12	24	21	23	15	13	10	2	2	4	5	23	20
2006	78	77	0	17	24	20	26	17	8	4	3	0	3	4	14	13
2005	24	24	0	4	7	5	4	4	3	2	1	1	1	0	8	8
2004	24	24	0	3	6	4	5	4	4	4	0	0	1	1	8	8
2003	24	24	0	3	6	5	5	4	3	3	1	0	1	1	8	8
2002	23	24	0	3	6	6	5	4	4	2	0	0	1	1	7	8
2001	24	24	1	3	6	5	4	6	4	1	0	0	1	1	8	8
2000	20	21	0	1	8	8	4	4	2	1	0	0	0	0	6	7
6. District Farrukhabad																
2009	6	9	0	1	1	1	2	1	1	0	2	2	0	2	0	2
2008	16	9	1	2	2	7	5	2	1	1	3	5	4	2	0	0
2007	22	22	0	1	6	10	6	3	3	1	3	3	4	4	0	0
2006	27	28	0	2	5	10	8	3	4	2	6	7	4	4	0	0
2005	9	9	0	1	3	2	3	3	0	0	3	3	0	0	0	0
2004	9	9	0	1	3	2	3	3	0	0	3	3	0	0	0	0
2003	8	8	0	2	3	2	1	1	1	0	2	3	1	0	0	0
2002	9	9	0	1	3	2	3	3	0	0	3	3	0	0	0	0
2001	9	9	0	0	3	4	3	2	0	0	3	3	0	0	0	0
2000	9	9	0	2	3	2	2	2	1	0	2	3	1	0	0	0
7. District Fatehpur																
2009	74	75	2	4	11	13	9	11	9	11	15	15	17	15	11	6
2008	114	108	0	8	9	26	18	16	21	17	24	28	32	9	9	4
2007	84	84	0	1	7	16	16	17	18	14	17	17	16	12	8	6
2006	81	80	0	2	8	12	19	15	15	14	23	23	9	8	7	5
2005	18	18	1	2	3	7	6	3	3	3	3	1	0	2	2	0
2004	16	15	0	1	5	5	3	2	3	3	3	2	1	1	1	1



Annexure VI.5

District-wise Frequency Analysis of Hydrograph Stations According to Depth to Water Level During Pre and Post Monsoon Season (2000-2009)

Year	No of Station		Frequency (in Meter only)													
	Pre	Post	0-2 (Pre & Post)		2-5 (Pre & Post)		5-8 (Pre & Post)		8-11 (Pre & Post)		11-15 (Pre & Post)		15-20 (Pre & Post)		>20 (Pre & Post)	
2003	15	15	0	1	3	5	4	4	3	3	2	0	2	1	1	1
2002	14	14	0	2	4	3	3	2	2	4	3	1	1	1	1	1
2001	11	11	0	1	3	4	2	1	2	3	2	0	1	2	1	0
2000	12	11	0	2	3	2	2	3	4	2	1	0	2	2	0	0
8. District Firozabad																
2009	4	4	0	0	1	1	3	3	0	0	0	0	0	0	0	0
2008	14	15	2	2	1	2	3	6	4	2	3	3	1	0	0	0
2007	15	16	2	2	1	1	4	6	4	2	4	4	0	1	0	0
2006	14	13	0	2	2	2	3	5	5	0	3	4	1	0	0	0
2005	4	5	0	1	1	0	2	3	0	0	1	1	0	0	0	0
2004	3	4	0	0	0	1	2	3	0	0	1	1	0	0	0	0
2003	3	4	0	0	2	0	2	1	0	0	1	1	0	0	0	0
2002	2	3	0	0	0	0	2	2	0	0	0	1	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	3	3	0	0	1	3	2	0	0	0	0	0	0	0	0	0
9. District Mahamaya Nagar																
2009	9	8	2	0	1	3	0	0	1	3	4	3	1	1	0	0
2008	16	16	0	4	2	0	3	1	3	2	4	3	1	1	4	4
2007	23	23	0	1	1	2	4	2	11	2	6	6	5	5	5	5
2006	19	20	0	0	1	2	5	5	2	10	5	6	4	3	2	3
2005	10	12	0	1	2	2	2	1	1	3	4	4	1	1	0	0
2004	8	9	0	1	1	2	1	2	2	2	4	1	0	1	0	0
2003	11	11	0	1	1	3	3	0	0	4	6	2	1	1	0	0
2002	6	9	0	0	1	1	2	2	0	1	3	5	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	7	7	0	1	2	1	1	1	2	3	2	1	0	0	0	0
10. District Kannauj																
2009	19	18	1	1	3	3	5	6	2	3	4	2	4	3	0	0
2008	23	22	0	1	5	4	4	6	5	3	3	2	6	6	0	0
2007	25	25	0	2	6	4	3	5	5	5	5	3	6	6	0	0
2006	30	30	0	3	7	4	4	6	6	6	6	4	7	7	0	0
2005	25	24	0	4	5	2	5	6	7	5	3	2	5	5	0	0
2004	21	24	1	2	4	3	4	7	6	4	2	3	4	5	0	0
2003	25	24	2	2	3	3	4	5	7	9	4	0	5	5	0	0
2002	23	23	1	2	3	3	3	6	7	4	4	4	5	4	0	0
2001	22	24	1	2	3	3	4	6	6	6	3	2	5	5	0	0
2000	20	23	0	1	5	4	5	5	4	5	1	2	5	5	0	0



District-wise Frequency Analysis of Hydrograph Stations According to Depth to Water Level During Pre and Post Monsoon Season (2000-2009)																
Year	No of Station		Frequency (in Meter only)													
	Pre	Post	0-2 (Pre & Post)		2-5 (Pre & Post)		5-8 (Pre & Post)		8-11 (Pre & Post)		11-15 (Pre & Post)		15-20 (Pre & Post)		>20 (Pre & Post)	
11. District Ramabai Nagar (Kanpr Dehat)																
2009	17	17	0	1	4	5	4	3	1	1	2	1	3	4	3	2
2008	67	74	0	13	12	22	19	17	15	5	9	9	7	5	5	3
2007	76	75	0	2	17	22	19	17	16	14	11	9	8	7	5	4
2006	63	62	1	7	20	21	16	12	10	11	8	4	5	5	3	2
2005	22	22	0	0	5	8	7	5	1	3	4	1	4	4	1	1
2004	22	22	0	1	4	7	6	4	3	3	4	2	3	4	2	1
2003	22	22	0	3	3	6	7	3	3	4	4	1	2	4	3	1
2002	22	22	0	1	2	5	6	5	6	4	3	1	2	4	3	1
2001	22	22	0	1	4	6	6	5	4	5	3	1	4	3	1	1
2000	19	19	0	1	5	5	4	3	4	5	1	1	4	3	1	1
12. District Kanpur Nagar																
2009	15	15	0	0	1	3	5	4	5	5	3	2	1	1	0	0
2008	35	44	2	5	2	8	8	9	8	9	4	2	1	1	0	0
2007	62	61	0	3	4	3	13	20	16	13	3	2	1	1	1	1
2006	60	58	0	4	5	4	20	22	15	11	2	2	2	2	0	0
2005	18	18	0	0	1	3	8	9	5	2	2	2	1	2	0	0
2004	17	17	0	0	2	2	6	8	5	3	2	2	2	2	0	0
2003	23	18	1	17	3	13	5	7	9	4	4	1	1	0	0	0
2002	19	20	0	2	2	0	8	9	7	5	1	2	1	2	0	0
2001	23	25	0	3	5	3	8	10	6	4	2	3	2	2	0	0
2000	24	19	0	1	3	6	11	8	5	2	3	2	2	0	0	0
13. District Kaushambi																
2009	34	34	0	0	0	2	6	7	5	1	6	8	8	8	0	0
2008	49	61	0	0	0	3	7	8	5	5	7	14	13	20	0	0
2007	39	43	0	0	2	5	5	5	6	4	4	6	10	12	0	0
2006	40	41	0	0	0	5	7	5	6	5	11	16	9	5	0	0
2005	22	23	0	0	1	3	5	6	6	4	2	5	6	3	0	0
2004	23	23	0	0	5	8	6	3	8	2	2	7	6	2	0	0
2003	22	23	0	0	0	8	5	4	8	2	3	6	5	2	0	0
2002	21	21	0	0	1	4	6	5	7	5	3	4	3	2	1	0
2001	17	17	0	0	0	5	6	5	4	1	4	4	2	1	1	0
2000	17	17	0	0	1	5	4	4	4	3	3	3	2	1	1	1
14. District Mainpuri																
2009	11	11	0	3	6	6	5	2	0	0	0	0	0	0	0	0
2008	24	24	3	8	10	9	8	7	3	0	0	0	0	0	0	0



Annexure VI.5

District-wise Frequency Analysis of Hydrograph Stations According to Depth to Water Level During Pre and Post Monsoon Season (2000-2009)

Year	No of Station		Frequency (in Meter only)													
	Pre	Post	0-2 (Pre & Post)		2-5 (Pre & Post)		5-8 (Pre & Post)		8-11 (Pre & Post)		11-15 (Pre & Post)		15-20 (Pre & Post)		>20 (Pre & Post)	
2007	27	26	3	7	9	8	12	8	2	3	0	0	0	0	0	0
2006	30	34	2	10	15	11	10	10	1	1	0	0	0	0	0	0
2005	9	17	0	6	3	7	5	4	1	0	0	0	0	0	0	0
2004	15	16	1	4	11	10	2	1	1	1	0	0	0	0	0	0
2003	17	17	1	5	9	10	6	2	1	0	0	0	0	0	0	0
2002	15	17	1	6	8	4	5	6	1	1	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	16	16	1	2	6	11	8	2	1	0	0	0	0	0	0	0
13. District Mathura																
2009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2008	19	21	1	4	6	10	7	3	2	3	1	0	1	1	0	0
2007	30	28	0	0	10	11	12	12	5	3	1	1	2	0	0	0
2006	28	22	0	0	12	13	8	5	5	2	0	1	3	1	0	0
2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Annexure VI.6

District-wise Trend in the Different Sources of Irrigation in Ramganga Command Districts (1992-93 to 1994-95, 2002-03 to 2004-05 and 2005-06 to 2007-08)

Agra Division									
Sl. No	Year	Canal Length (km)	Govt. Tube well (No.)	Permanent Well (No.)	Rahat (No.)	Ground Pump set (No.)	Boring Pump set (No.)	Private Tube well (No.)	Bandhi (ha)
1	1992-93	5506	2599	15968	15970	1094	245999	64759	1083
2	1993-94	5506	2576	15750	15752	1005	243329	59111	1083
3	1994-95	5618	2490	15750	15752	1005	264172	60215	1083

Sl. No	Year	Canal Length (km)	Govt. Tube well (No.)	Permanent Well (No.)	Ground Pump set (No.)	Private Tube Well (No.)				
						Through Electricity	Through Diesel	Other	Total	Deep Tube Well
1	2002-03	5876	2308	17356	721	42229	205325	8092	255646	538
2	2003-04	5870	2271	17425	721	67331	294249	9826	371406	595
3	2004-05	5860	2283	2242	30	67996	300122	9826	377944	672
4	2005-06	5800	2147	2238	30	68222	304810	9826	382858	748
5	2006-07	5800	2243	2303	30	69797	308094	9826	387717	846
6	2007-08	5860	2135	2303	30	70973	313705	9826	394504	919

Contd.,



Annexure VI.6

Allahabad Division									
Sl. No	Year	Canal Length (km)	Govt. Tube well (No.)	Permanent Well (No.)	Rahat (No.)	Ground Pump set (No.)	Boring Pump set (No.)	Private Tube well (No.)	Bandhi (ha)
1	1992-93	7847	3400	18024	16920	8412	149775	34639	0
2	1993-94	7871	3175	18232	16920	8580	160609	36678	0
3	1994-95	7871	3176	19532	16920	10520	177417	37662	0

Sl. No	Year	Canal Length (km)	Govt. Tube well (No.)	Permanent Well (No.)	Ground Pump set (No.)	Private Tube Well (No.)				
						Through Electricity	Through Diesel	Other	Total	Deep Tube Well
1	2002-03	6024	1883	15644	6103	14464	119160	1904	135528	197
2	2003-04	6024	1883	3835	324	24324	158278	2159	184761	713
3	2004-05	6024	1934	3841	933	24510	162364	2159	189033	967
4	2005-06	6024	1946	3841	933	24659	165574	2159	192392	1339
5	2006-07	5958	1946	3841	933	24954	167163	2159	194276	1844
6	2007-08	5958	1937	3841	933	25077	170793	2159	198029	3017

Contd.,



Annexure VI.6

Kanpur Division									
Sl. No	Year	Canal Length (km)	Govt. Tube well (No.)	Permanent Well (No.)	Rahat (No.)	Ground Pump set (No.)	Boring Pump set (No.)	Private Tube well (No.)	Bandhi (ha)
1	1992-93	3933	1506	10330	9969	1151	155080	17091	0
2	1993-94	3933	1597	10280	9969	1277	163088	17483	0
3	1994-95	6362	2780	20309	19687	1662	281152	30967	0

Sl. No	Year	Canal Length (km)	Govt. Tube well (No.)	Permanent Well (No.)	Ground Pump set (No.)	Private Tube Well (No.)				
						Through Electricity	Through Diesel	Other	Total	Deep Tube Well
1	2002-03	4169	1632	6950	1300	10097	95256	254	105607	63
2	2003-04	4197	1644	7951	407	13550	192411	456	206417	2576
3	2004-05	4193	1620	3630	105	11184	183633	985	195802	2894
4	2005-06	4193	1653	428	105	11916	190014	985	202915	3117
5	2006-07	4193	4665	428	105	13124	196648	985	210757	3469
6	2007-08	4193	1732	428	105	13318	204115	985	218418	4016

Annexure VI.7

District-wise Number of Irrigation Structures in Ramganga Command Area Districts (1994-95)

Sl. No	District Name	Canal Length (km)	Govt. Tube well (No.)	Permanent Well (No.)	Rahat (No.)	Ground Pump set (No.)	Boring Pump set (No.)	Private Tube well (No.)	Bandhi (ha)
1	Ailgarh	908	730	0	0	0	57213	25420	0
2	Mathura	1514	21	7	7	530	47137	9294	0
3	Agra	594	386	361	367	435	51675	8578	1083
4	Firozabad	465	343	0	0	0	12582	1476	0
5	Etah	1121	665	14705	14701	0	55959	9459	0
6	Mainpuri	1016	345	677	677	40	39606	5988	0
7	Mahamaya Nagar	-	-	-	-	-	-	-	-
Total Division		5618	2490	15750	15752	1005	264172	60215	1083

Sl. No	District Name	Canal Length (km)	Govt. Tube well (No.)	Permanent Well (No.)	Rahat (No.)	Ground Pump set (No.)	Boring Pump set (No.)	Private Tube well (No.)	Bandhi (ha)
1	Fatehpur	1519	540	4996	4516	1570	33866	5938	0
2	Pratapgarh	1764	92	6714	6712	24	49757	6126	0
3	Kaushambi	2294	1272	3911	2846	4463	46897	12799	0
4	Allahabad	2294	1272	3911	2846	4463	46897	12799	0
Total		7871	3176	19532	16920	10520	177417	37662	0

Annexure VI.7

Sl. No	District Name	Canal Length (km)	Govt. Tube well (No.)	Permanent Well (No.)	Rahat (No.)	Ground Pump set (No.)	Boring Pump set (No.)	Private Tube well (No.)	Bandhi (ha)
1	Farrukhabad	660	559	3380	3380	13	61548	9499	0
2	Etawah	1599	566	6649	6338	264	44583	3142	0
3	Kanpur Dehat	1645	492	219	219	988	58480	3029	0
4	Kanpur Nagar	199	38	32	32	120	10410	2665	0
5	Kannauj	660	559	3380	3380	13	61548	9499	0
6	Auraiya	1599	566	6649	6338	264	44583	3142	0
Total Division		6362	2780	20309	19687	1662	281152	30976	0

Annexure VI.8

District-wise Number of Irrigation Structures in Ramganga Command Area Districts (2004-05)

Agra Division Year 2004-2005

Sl. No	District Name	Canal Length (km)	Govt. Tube well (No.)	Permanent Well (No.)	Ground Pump set (No.)	Private Tube Well (No.)				
						Through Electricity	Through Diesel	Other	Total	Deep Tube Well
1	Ailgarh	565	602	67	0	17655	35858	124	53637	11
2	Mathura	1367	2	422	0	5379	48841	3563	57783	36
3	Agra	737	351	1749	30	11555	54785	1490	67830	507
4	Firozabad	465	230	0	0	8828	22338	158	31324	113
5	Etah	1133	646	0	0	7810	63140	2286	73236	0
6	Mainpuri	1004	322	4	0	7348	52374	1610	61332	0
7	Mahamaya Nagar	589	130	0	0	9421	22786	595	32802	5
Total Division		5860	2283	2242	30	67996	300122	9826	377944	672

Allahabad Division Year 2004-2005

Sl. No	District Name	Canal Length (km)	Govt. Tube well (No.)	Permanent Well (No.)	Ground Pump set (No.)	Private Tube Well (No.)				
						Through Electricity	Through Diesel	Other	Total	Deep Tube Well
1	Fatehpur	1523	527	777	59	6353	32680	406	39439	360
2	Pratapgarh	1767	81	168	0	8157	88405	1517	98079	2
3	Kaushambi	523	273	17	69	1215	14161	2	15378	262
4	Allahabad	2211	1053	2879	805	8785	27118	234	36137	352
Total Division		6024	1934	3841	933	24510	162364	2159	189033	976

Contd.,



Annexure VI.8

Kanpur Division Year 2004-2005

Sl. No	District Name	Canal Length (km)	Govt. Tube well (No.)	Permanent Well (No.)	Ground Pump set (No.)	Private Tube Well (No.)				
						Through Electricity	Through Diesel	Other	Total	Deep Tube Well
1	Farrukhabad	144	288	0	10	4378	24761	254	29393	49
2	Etawah	839	312	0	0	346	35085	0	35431	61
3	Kanpur Dehat	1087	249	176	5	942	29800	202	30944	1227
4	Kanpur Nagar	822	291	166	73	2318	32502	220	35040	1452
5	Kannauj	475	201	960	17	3200	26044	309	29553	74
6	Auraiya	826	279	2328	0	0	35441	0	35441	31
Total Division		4193	1620	3630	105	11184	183633	985	195802	2894

Annexure VI.9

District-wise Number of Irrigation Structures in Ramganga Command Area Districts (2007-08)

Agra Division Year 2007-2008

Sl. No	District Name	Canal Length (km)	Govt. Tube well (No.)	Perman ent Well (No.)	Ground Pump set (No.)	Private Tube Well (No.)				
						Through Electricity	Through Diesel	Other	Total	Deep Tube Well
1	Ailgarh	565	595	67	0	18646	39255	124	58025	11
2	Mathura	1367	2	422	0	5488	50292	3563	59343	36
3	Agra	737	248	1749	30	11659	54894	1490	68043	602
4	Firozabad	465	237	61	0	9405	23027	158	32590	265
5	Etah	1133	602	0	0	8143	67488	2286	77917	0
6	Mainpuri	1004	321	4	0	7751	54368	1610	63729	0
7	Mahamaya Nagar	589	130	0	0	9881	24381	595	34857	5
Total Division		5860	2135	2303	30	70973	313705	9826	394504	919

Allahabad Division Year 2007-2008

Sl. No	District Name	Canal Length (km)	Govt. Tube well (No.)	Perman ent Well (No.)	Ground Pump set (No.)	Private Tube Well (No.)				
						Through Electricity	Through Diesel	Other	Total	Deep Tube Well
1	Fatehpur	1523	497	777	59	6398	34531	406	41335	768
2	Pratapgrah	1767	87	168	0	8471	90967	1517	100955	2
3	Kaushambi	494	282	17	69	1318	15353	2	16673	1107
4	Allahabad	2145	1071	2879	805	8890	29942	234	39066	1140
Total Division		5929	1937	3841	933	25077	170793	2159	198029	3017

Contd.,



Annexure VI.9

Kanpur Division Year 2007-2008

Sl. No	District Name	Canal Length (km)	Govt. Tube well (No.)	Permane nt Well (No.)	Ground Pump Set (No.)	Private Tube Well (No.)				
						Through Electricity	Through Diesel	Other	Total	Deep Tube Well
1	Farrukhabad	144	313	29	10	4414	26802	254	31470	80
2	Etawah	839	348	0	0	1616	37118	0	38734	100
3	Kanpur Dehat	1087	255	176	5	942	37949	202	39093	1246
4	Kanpur Nagar	822	298	166	73	2329	37602	220	40151	2200
5	Kannauj	475	213	57	17	4017	27424	309	31750	226
6	Auraiya	826	305	0	0	0	37220	0	37220	164
Total Division		4193	1732	428	105	13318	204115	985	218418	4016



Annexure VI.10

District-wise and Total Area (ha) Irrigated by Different Source in Ramganga Command Districts 1992-93 to 1993-94, 2000-01 to 2002-2003 and 2004-05 to 2006-07

Agra Division								
Sl. No	Year / District	Canal	Tube Well		Well	Pond	Other	Total
			Govt.	Private				
1	1991-92	370426	52606	1034230	25468	302	5083	1488115
2	1992-93	373745	56001	1030150	25936	619	7882	1494333
3	1993-94	348585	57318	1077987	18024	633	9656	1512203
District-wise 1993-94								
1	Aligarh	66513	18188	302466	65	51	1179	388462
2	Mathura	124921	539	170760	944	19	511	297694
3	Agra	36709	7450	167205	2806	157	1079	215406
4	Firozabad	20438	5376	133850	65	9	113	159851
5	Etah	51796	18871	185618	13197	386	6219	276087
6	Mainpuri	48208	6894	118088	947	11	555	174703
7	Mahamaya Nagar	-	-	-	-	-	-	0
Total Division		348585	57318	1077987	18024	633	9656	1512203

Sl. No	Year / District	Canal	Tube Well		Well	Pond	Other	Total
			Govt.	Private				
1	2000-01	307189	38635	1142554	73221	189	2568	1564356
2	2001-02	281012	33961	1219145	78308	517	6887	1619830
3	2002-03	278235	39355	1236181	32760	1027	1550	1589108
District-wise 2002-03								
1	Aligarh	32830	6631	257898	0	107	139	297605
2	Mathura	100149	0	163964	0	249	0	264362
3	Agra	22276	4289	206694	1091	651	62	235063
4	Firozabad	19511	1808	152856	118	0	63	174356
5	Etah	37606	11925	212426	31508	0	1286	294751
6	Mainpuri	54416	13673	112893	43	20	0	181045
7	Mahamaya Nagar	11447	1029	129450	0	0	0	141926
Total Division		278235	39355	1236181	32760	1027	1550	1589108

Sl. No	Year / District	Canal	Tube Well		Well	Pond	Other	Total
			Govt.	Private				
1	2004-05	289073	21721	1179883	110520	773	7898	1609868
2	2005-06	266086	25972	1238908	73786	819	9290	1614861
3	2006-07	275001	20879	1233678	78892	597	6517	1615564
District-wise 2006-07								
1	Aligarh	33323	5053	249678	58	0	1	288113
2	Mathura	108110	0	151940	133	0	0	260183
3	Agra	30930	5656	211645	1015	577	159	249982
4	Firozabad	17512	957	153627	2241	0	188	174525
5	Etah	32248	3407	195258	75412	0	6169	312494
6	Mainpuri	40101	5292	137181	33	20	0	182627
7	Mahamaya Nagar	12777	514	134342	0	0	0	147633
Total Division		275001	20879	1233671	78892	597	6517	1615557

Contd.,



Allahabad Division

Sl. No	Year / District	Canal	Tube Well		Well	Pond	Other	Total
			Govt.	Private				
1	1991-92	405033	76671	366661	14361	8645	5016	876387
2	1992-93	412080	76465	379628	13540	6090	6962	894765
3	1993-94	193189	42281	209725	3771	2373	2572	453911
District-wise 1993-94								
1	Fatehpur	62454	10931	88880	906	710	535	164416
2	Kaushambi	130735	31350	120845	2865	1663	2037	289495
Total Division		193189	42281	209725	3771	2373	2572	453911

Sl. No	Year / District	Canal	Tube Well		Well	Pond	Other	Total
			Govt.	Private				
1	2000-01	275310	34992	378856	2728	2993	2317	697196
2	2001-02	269521	30336	401900	3205	5016	739	710717
3	2002-03	53893	9638	206273	137	1142	121	271204
District-wise 2002-03								
1	Fatehpur	40193	5375	137739	15	718	121	184161
2	Kaushambi	13700	4263	68534	122	424	0	87043
Total Division		53893	9638	206273	137	1142	121	271204

Sl. No	Year / District	Canal	Tube Well		Well	Pond	Other	Total
			Govt.	Private				
1	2004-05	261795	29767	402251	6712	5487	710	706722
2	2005-06	254500	30419	417694	7866	7734	543	718756
3	2006-07	53308	8005	217740	348	329	298	280028
District-wise 2006-07								
1	Fatehpur	37464	4906	144682	254	323	219	187848
2	Kaushambi	15844	3099	73058	94	6	79	92180
Total Division		53308	8005	217740	348	329	298	280028

Contd.,



Annexure VI.10

Kanpur Division

Sl. No	Year / District	Canal	Tube Well		Well	Pond	Other	Total
			Govt.	Private				
1	1991-92	303355	39929	347096	9508	1162	2210	703260
2	1992-93	291790	36945	395524	6897	1276	4713	737145
3	1993-94	292096	35945	390546	10582	1795	3278	734242
District-wise 1993-94								
1	Farrukhabad	23704	13185	191762	8404	665	1800	239520
2	Etawah	123387	9007	88466	959	168	283	222270
3	Kanpur Dehat	132006	12841	81027	1024	945	428	228280
4	Kanpur Nagar	12999	912	29291	195	8	767	44172
5	Kannauj	-	-	-	-	-	-	-
6	Auraiya	-	-	-	-	-	-	-
Total Division		292096	35945	390546	10582	1786	3278	734242

Sl. No	Year / District	Canal	Tube Well		Well	Pond	Other	Total
			Govt.	Private				
1	2000-01	248013	50513	487036	3043	899	1642	791146
2	2001-02	228931	36560	539654	18026	513	678	824362
3	2002-03	199750	27288	537152	11091	858	562	776701
District-wise 2002-03								
1	Farrukhabad	4552	2667	113208	10562	67	222	131278
2	Etawah	58716	3921	54681	53	168	14	117553
3	Kanpur Dehat	58262	7393	91103	15	121	1	156895
4	Kanpur Nagar	22356	6467	102558	418	115	260	132174
5	Kannauj	12068	4111	112588	37	158	17	128979
6	Auraiya	43796	2729	63014	6	229	48	109822
Total Division		199750	27288	537152	11091	858	562	776701

Sl. No	Year / District	Canal	Tube Well		Well	Pond	Other	Total
			Govt.	Private				
1	2004-05	231450	26122	522833	3272	1111	183	784971
2	2005-06	234157	29783	527759	2590	1033	196	795518
3	2006-07	228707	25451	544540	1853	802	928	802281
District-wise 2006-07								
1	Farrukhabad	2071	3561	120093	947	5	0	126677
2	Etawah	60089	4426	57232	383	113	9	122252
3	Kanpur Dehat	67090	6509	93502	4	117	10	167232
4	Kanpur Nagar	29706	5158	98166	452	275	909	134666
5	Kannauj	15107	3266	110113	0	56	0	128542
6	Auraiya	54644	2531	65434	67	236	0	122912
Total Division		228707	25451	544540	1853	802	0	802281



Annexure VI.11

Block Wise Feasibility in Ramganga Command Area for the Year 1995 & 2004

Sl. No	District Name	Block Name	Recharge		Net Draft		Utilization		Stage of Ground Water Development	
			1995	2004	1995	2004	1995	2004	1995	2004
1	Agra	Etamadpur	5198.61	5228.54	3600.38	5644.31	1598.23	75.18	69.26	95.21
2	Agra	Fatehpur Sikri	6739.74	7325.04	4347.00	5951.12	2392.74	1153.52	64.50	81.24
3	Agra	Akola	6270.28	5381.28	4112.64	5250.19	2157.64	-3.44	65.59	97.56
4	Agra	Fatehabad	7951.31	7681.58	5220.18	7624.38	2731.13	-130.89	65.65	99.26
5	Agra	Shamsabad	5148.88	6432.85	2546.54	7825.00	2602.35	-1681.96	49.46	121.64
6	Agra	Saiyam	6913.02	7734.10	4829.55	6940.53	2083.47	627.60	69.86	89.74
7	Agra	Kheragarh	6223.93	7526.00	3842.69	5922.20	2381.24	1384.73	61.74	78.69
8	Agra	Pinahat	4773.32	6501.37	2387.28	4395.66	2386.04	1942.90	50.01	67.61
9	Agra	Bah	3873.66	6472.21	2667.98	5039.92	1205.68	1245.63	68.87	77.87
10	Aligarh	Atrauli	4492.96	8068.77	4312.24	7932.37	180.73	-60.23	95.98	98.31
11	Aligarh	Jawa Sikandarpur	11621.74	11129.83	4458.44	8039.48	7163.30	2792.60	38.36	72.32
12	Aligarh	Tappal	7803.03	9058.95	4316.20	7915.17	3486.83	850.62	55.31	87.37
13	Aligarh	Lodha	2981.18	7733.41	3895.58	6957.99	-914.40	603.57	130.70	89.97
14	Aligarh	Dhanipur	9976.12	9746.92	3801.70	6328.28	6174.42	3184.26	38.11	64.93
15	Aligarh	Akrabad	11079.31	10025.24	4757.62	6407.98	6321.69	3379.93	42.94	63.92
16	Auraiya	Achhalda	7283.65	12974.84	2903.04	7147.11	4380.61	5697.84	39.86	55.08
17	Auraiya	Ajitmal	6324.00	7172.77	1516.41	3763.76	4807.59	3312.81	23.98	52.47
18	Auraiya	Auraiya	10738.05	11568.71	1763.51	3798.95	8974.54	7697.21	16.42	32.84
19	Auraiya	Bhagya Nagar	8646.20	9912.59	2568.23	6202.83	6077.97	3608.64	29.70	62.58
20	Auraiya	Erwa Katra	5530.95	9736.86	2210.39	5864.48	3320.56	3775.13	39.96	60.23
21	Auraiya	Sahar	7476.60	11011.22	2802.66	6043.99	4673.94	4853.16	37.49	54.89
22	Auraiya	Bidhuna	11071.25	10661.79	2748.69	9134.31	8322.56	1423.29	24.83	85.67
23	Etah	Marehra	4627.00	4874.83	3973.48	6602.17	653.52	-1971.87	85.88	135.43
24	Etah	Sidhpura	9323.82	5897.80	2528.96	4594.49	6794.86	1133.14	27.12	77.90
25	Etah	Nidhauli kalan	9649.06	9217.27	4773.02	7302.16	4876.04	811.35	49.47	79.22
26	Etah	Shitalpur	7705.18	10207.73	5554.78	8139.41	2150.40	1766.87	72.09	79.74
27	Etah	Jaithara	7705.18	7346.29	3606.26	4865.27	5418.01	2300.83	39.96	66.23
28	Etah	Awagarh	8386.47	8222.99	2940.98	4311.99	5445.49	3751.30	35.07	52.44
29	Etah	Aliganj	10351.39	8693.13	4816.80	5172.18	5534.58	3329.39	46.53	59.50
30	Etah	Jalesar	7254.78	5880.03	3658.06	5374.79	3596.72	306.49	50.42	91.40
31	Etah	Sakeet	9648.83	6309.86	4561.34	6898.38	5087.49	-844.02	47.27	109.33
32	Etawah	Basrehar	13681.60	15375.00	2770.60	5390.75	10911.00	9792.72	20.25	35.06
33	Etawah	Bharthana	11268.45	9419.31	2725.59	4737.61	8542.86	4544.07	24.19	50.36
34	Etawah	Chakar Nagar	5842.38	5768.68	788.76	1755.01	5053.62	3942.87	13.50	30.42
35	Etawah	Jaswant Nagar	10268.89	10910.11	3774.40	5368.82	6494.49	5498.66	36.76	49.21
36	Etawah	Mahewa	9752.90	11824.45	2543.03	5112.39	7209.87	6674.19	26.07	43.24
37	Etawah	Takha	7546.30	10203.44	2223.69	3896.29	5322.61	6219.84	29.47	38.19
38	Farrukhabad	Kamalganj	6557.75	8982.99	4822.30	8730.95	1735.45	192.36	73.54	97.19
39	Farrukhabad	Muhammadabad	6977.65	7688.58	3062.50	5641.11	3915.15	1938.64	43.89	73.37



Annexure VI.11

Block Wise Feasibility in Ramganga Command Area for the Year 1995 & 2004

Sl. No	District Name	Block Name	Recharge		Net Draft		Utilization		Stage of Ground Water Development	
			1995	2004	1995	2004	1995	2004	1995	2004
40	Farrukhabad	Nawabganj	7214.80	9511.88	4154.50	6568.41	3060.30	2830.45	57.58	69.05
41	Fatehpur	Airayan	9632.90	8253.20	3775.38	7197.71	5857.52	895.55	39.19	87.21
42	Fatehpur	Amauli	8147.34	8337.14	3659.32	4512.33	4488.02	3738.63	44.91	54.12
43	Fatehpur	Asodhar	9395.01	9453.64	2193.31	6317.66	7201.70	2976.60	23.35	66.83
44	Fatehpur	Bahua	5049.02	10746.90	2732.59	5967.80	2316.43	4527.29	54.12	55.53
45	Fatehpur	Bhithaura	10180.59	11563.65	3793.09	8090.14	6387.50	3270.71	37.26	69.96
46	Fatehpur	Devmai	6204.45	9233.89	3304.07	8072.87	2900.38	1061.09	53.25	87.43
47	Fatehpur	Dhata	9005.92	10141.76	3855.04	7024.87	5150.88	3059.95	42.81	69.27
48	Fatehpur	Haswa	9825.19	12529.17	3428.04	7665.86	6397.15	4667.59	34.89	51.18
49	Fatehpur	Hathgaon	8371.23	8924.23	3791.83	6978.23	4579.40	1804.44	45.30	78.19
50	Fatehpur	Khajuha	9714.77	9628.84	3583.23	6377.72	6131.54	3055.63	36.88	66.24
51	Fatehpur	Malwan	12497.68	9949.37	3976.07	8243.29	8521.61	1569.47	31.81	82.85
52	Fatehpur	Telyani	8552.22	9500.25	3437.98	7793.38	5114.24	1569.58	40.20	82.03
53	Fatehpur	Vijayipur	10671.09	11114.04	4275.04	6999.14	6396.05	4029.59	40.06	62.98
54	Firozabad	Eka		12241.17		8480.07		3447.03		69.27
55	Firozabad	Jasrana		10214.78		6731.35		3234.12		65.92
56	Firozabad	Tundla		5774.05		5637.76		626.42		97.64
57	Firozabad	Firozabad		6888.48		6634.20		8.57		96.31
58	Firozabad	Madanpur		10489.87		8243.77		1940.77		78.59
59	Firozabad	Araun		6357.05		4168.26		2034.41		65.57
60	Hathras	Sikandra rao	6117.47	10546.47	3482.50	9437.60	2634.97	884.16	56.93	89.49
61	Hathras	Hasayan	9994.71	11854.84	3685.50	10434.60	6309.21	1033.61	36.87	88.02
62	Hathras	Sasni	3366.85	6991.28	3647.99	8245.90	-281.14	-1560.03	108.30	117.95
63	Kannauj	Chhibramau	5718.80	11036.07	4531.10	8484.81	1187.70	2353.39	79.23	76.88
64	Kannauj	Haseran	8160.00	7480.90	1933.40	4001.82	6226.60	3400.73	23.39	53.49
65	Kannauj	Saurikh	10543.40	11598.68	2956.80	6306.71	7586.60	5228.25	25.04	54.37
66	Kannauj	Talgram	3100.80	5785.54	2292.50	4419.00	808.30	1292.04	73.93	76.38
67	Kannauj	Umarda	12829.05	22774.13	6108.20	11753.52	6720.85	10838.58	47.61	51.61
68	Kanpur Dehat	Akbarpur	7118.75	9559.04	4923.80	4970.05	2194.95	4579.07	69.17	51.99
69	Kanpur Dehat	Amrodha	7868.45	8730.59	2103.50	2887.32	5764.95	5758.66	36.76	33.07
70	Kanpur Dehat	Derapur	7217.35	8409.59	2950.50	3922.85	4266.85	4413.06	40.88	46.65
71	Kanpur Dehat	Jhinhak	6700.55	7341.07	2514.40	2970.69	4186.15	4249.98	37.53	40.47
72	Kanpur Dehat	Kakwan	9691.25	12025.95	4365.90	8722.31	5328.35	3135.27	45.04	72.53
73	Kanpur Dehat	Malasa	4964.00	8357.24	2776.20	2643.08	2187.80	5699.36	55.93	31.63
74	Kanpur Dehat	Rajepur	6289.13	9300.42	733.60	2336.48	5555.55	6861.67	11.66	25.12
75	Kanpur Dehat	Sandapur	4397.05	5432.86	2569.70	2671.18	1827.35	2676.09	58.44	49.17
76	Kanpur	Sarwankhera	6629.15	8876.02	4240.60	3961.58	2388.55	4852.89	63.97	44.63



Block Wise Feasibility in Ramganga Command Area for the Year 1995 & 2004

Sl. No	District Name	Block Name	Recharge		Net Draft		Utilization		Stage of Ground Water Development	
			1995	2004	1995	2004	1995	2004	1995	2004
	Dehat									
77	Kanpur Dehat	Bhitargaon	11489.45	9794.42	4298.70	7402.01	7190.75	2310.28	37.41	75.57
78	Kanpur Nagar	Bidhnu	7380.30	8675.22	2048.24	5342.17	5332.05	3093.07	27.75	61.58
79	Kanpur Nagar	Bilhaur	5695.85	7275.41	2697.10	4510.86	2998.75	2645.96	47.35	62.00
80	Kanpur Nagar	Chaubepur	5797.00	8224.96	3841.60	6583.46	1955.40	1548.02	66.27	80.04
81	Kanpur Nagar	Ghatampur	9719.75	12448.60	3530.10	6248.03	6189.65	6057.12	36.32	50.19
82	Kanpur Nagar	Kalyanpur	5450.78	7099.16	1612.08	4325.72	3838.70	2444.42	29.58	60.93
83	Kanpur Nagar	Patara	6794.05	10140.23	3746.40	6650.40	3047.65	3334.76	55.14	65.58
84	Kanpur Nagar	Sarsol	4719.18	7793.80	2605.65	4661.13	2113.53	2901.91	55.21	59.81
85	Kanpur Nagar	Shivrajpur	6700.55	9184.00	2693.60	7947.01	4006.95	1158.18	40.20	86.53
86	Kaushambi	Kara	4891.81	4921.11	1435.28	3802.94	3456.53	945.55	29.34	77.28
87	Kaushambi	Kaushambi	8328.43	7086.04	905.44	2373.04	7422.99	4505.51	10.87	33.49
88	Kaushambi	Manjhanpur	3271.68	4458.06	1622.17	2713.25	1594.56	1514.94	51.26	60.86
89	Kaushambi	Newada	5722.30	3932.00	1606.59	3337.95	4115.71	367.07	28.08	84.89
90	Kaushambi	Sarsawan	6425.83	9904.84	1330.15	2893.73	5095.68	6828.01	20.70	29.22
91	Kaushambi	Sirathu	6489.24	4856.09	2208.93	4317.54	4280.31	243.73	34.04	88.91
92	Mainpuri	Ghiror	11308.03	13161.66	4824.12	10301.52	6483.91	2478.61	42.66	78.27
93	Mainpuri	Mainpuri	8193.78	11286.56	5157.46	8703.46	3036.32	2260.75	62.94	77.11
94	Mainpuri	Kishni	9490.52	10961.08	4247.88	8890.32	5242.64	1741.49	44.34	81.11
95	Mainpuri	Karhal	9959.89	11353.78	3806.74	10021.01	6153.15	961.63	38.22	88.26
96	Mathura	Nohjhil	5951.63	6710.45	4084.43	7914.48	1867.20	-1497.15	68.63	117.94
97	Mathura	Chhata	4506.18	11352.55	2769.27	11185.56	1736.91	-247.29	6145.00	98.53
98	Mathura	Nandgoan	6776.01	11525.39	2595.18	6772.96	4180.83	4501.58	38.30	58.77
99	Mathura	Mat	7802.07	7917.90	3250.94	6311.60	4551.13	1372.54	41.67	79.71
100	Mathura	Chauma	8420.44	13341.90	3446.80	9309.01	4973.44	3688.12	40.93	69.77
101	Mathura	Raya	6968.78	6794.55	3603.32	6090.83	3365.46	478.13	51.71	89.64
102	Mathura	Govardhan	6563.67	11501.22	3978.66	9028.24	2585.01	2138.60	60.62	78.50
103	Mathura	Baldeo	5676.55	6667.99	3361.12	6640.61	2315.43	-218.57	59.21	99.59
104	Mathura	Farah	6664.81	9831.38	2491.95	6267.91	4172.86	2731.33	37.39	67.90



Annexure VI.12

Block Wise Drinking Water Quality

District Name	Block Name	Problem in Surface Water Quality	Ground Water Availability Status	Problem with Water Quality Status	Iron	Fluoride	Nitrate	Salinity / TDS	Remarks
Aligarh	Tappal	Least	Safe	Moderate	Iron	Fluoride		Salinity	Water Quality is Very Poor
Aligarh	Chandaus	Least	Moderate	Severe					
Aligarh	Khair	Least	Least	Severe				Salinity	
Aligarh	Jawa	Least	Safe	Severe					
Aligarh	Lodha	Least	Severe	Severe					
Aligarh	Dhanipur	Least	Safe	Severe					
Aligarh	Gonda	Least	Safe	Severe				Salinity	
Aligarh	Iglas	Least	Safe	Severe				Salinity	
Aligarh	Atrouli	Least	Least	Severe					
Aligarh	Bijouli	Least	Safe	Severe					
Aligarh	Gangiri	Least	Safe	Severe					
Aligarh	Akrabad	Least	Safe	Severe					
Hathras	Hathras	Least	Safe	Severe	Iron	Fluoride	Nitrate	Salinity, TDS	Water Quality is Satisfactory
Hathras	Sasni	Least	Safe	Least		Fluoride	Nitrate	Salinity	
Hathras	Mursan	Least	Safe	Least	Iron	Fluoride	Nitrate		
Hathras	Sikandrarao	Least	Safe	Least	Iron			Salinity	
Hathras	Hasayan	Least	Safe	Least		Fluoride			
Hathras	Sadabad	Least	Safe	Least	Iron	Fluoride	Nitrate	Salinity, TDS	
Hathras	Sahapu	Least	Safe	Least		Fluoride	Nitrate	TDS	
Mathura	Nandgaon		Safe		Iron	Fluoride	Nitrate	`	Water Quality is Very Bad, People are not Potential risk
Mathura	Chhata	Least	Least	Severe	Iron		Nitrate	Salinity, TDS	



Annexure VI.12

Block Wise Drinking Water Quality

District Name	Block Name	Problem in Surface Water Quality	Ground Water Availability Status	Problem with Water Quality Status	Iron	Fluoride	Nitrate	Salinity / TDS	Remarks
Mathura	Chaumuha	Least	Safe	Moderate	Iron	Fluoride	Nitrate	Salinity, TDS	of Fluorosis, Recharging Ponds
Mathura	Goverdhan	Moderate	Moderate	Severe	Iron	Fluoride	Nitrate	Salinity, TDS	
Mathura	Mathura	Moderate	Least	Severe	Iron		Nitrate	Salinity, TDS	
Mathura	Farah	Moderate	Safe	Severe	Iron	Fluoride	Nitrate	Salinity, TDS	
Mathura	Nohjhil	Least	Severe	Least	Iron	Fluoride	Nitrate	Salinity, TDS	
Mathura	Mat	Least	Least	Moderate	Iron	Fluoride	Nitrate	Salinity, TDS	Renovation Drinking Wells restoration are suggested in the district
Mathura	Raya	Least	Least	Severe	Iron	Fluoride	Nitrate	Salinity, TDS	
Mathura	Baldeo	Least	Least	Severe	Iron	Fluoride	Nitrate	Salinity, TDS	
Agra	Fatehpur Sikri	Least	Safe	Least	Iron		Nitrate	Salinity, TDS	Water Quality is detoned. The water is mostly saline & escalation of fluoride is reported, hardness present, Fluoride may be due to use of phosphate fertilizer which are being leached down to earth
Agra	Achhenera	Moderate	Safe	Least	Iron		Nitrate	Salinity, TDS	
Agra	Akola	Moderate	Least	Moderate	Iron	Fluoride	Nitrate	Salinity, TDS	
Agra	Bichpuri	Least	Least	Severe	Iron	Fluoride	Nitrate	Salinity, TDS	
Agra	Barauli Ahir	Least	Safe	Moderate	Iron		Nitrate		
Agra	Khandauli	Moderate	Least	Least	Iron	Fluoride	Nitrate	Salinity	
Agra	Etamadpur	Least	Least	Least	Iron			Salinity	
Agra	Jagner	Moderate	Safe	Moderate	Iron	Fluoride	Nitrate	Salinity, TDS	
Agra	Kheragarh	Moderate	Safe	Least	Iron	Fluoride	Nitrate	Salinity, TDS	
Agra	Saiyan	Moderate	Safe	Least	Iron	Fluoride	Nitrate	TDS	
Agra	Shamsabad	Least	Severe	Moderate	Iron				
Agra	Fatehabad	Least	Least	Least	Iron	Fluoride		Salinity	
Agra	Pinhat	Least	Safe	Least	Iron				



Annexure VI.12

Block Wise Drinking Water Quality

District Name	Block Name	Problem in Surface Water Quality	Ground Water Availability Status	Problem with Water Quality Status	Iron	Fluoride	Nitrate	Salinity / TDS	Remarks
Agra	Bah	Least	Least	Least	Iron	Fluoride			Fluoride Contamination Level is very High
Agra	Jaitpur Kalan	Least	Safe	Least	Iron				
Firozabad	Narkhi	Least	Safe	Moderate	Iron	Fluoride	Nitrate	Salinity	
Firozabad	Firozabad	Least	Moderate	Least	Iron		Nitrate	Salinity	
Firozabad	Tundla	Least	Least	Severe	Iron	Fluoride	Nitrate		
Firozabad	Eka	Moderate	Safe	Least	Iron	Fluoride	Nitrate	Salinity	
Firozabad	Khergarh	Least	Safe	Least	Iron	Fluoride	Nitrate	TDS	
Firozabad	Jasrana	Moderate	Safe				Nitrate	Salinity, TDS	
Firozabad	Shikohabad	Least	Least	Least	Iron	Fluoride	Nitrate		To arrest devlining ground water trend artificial recharge schemes is required, water quality is very poor in jalesar blocks.
Firozabad	Araon	Least	Safe	Least	Iron	Fluoride	Nitrate		
Firozabad	Madanpur	Least	Least	Least	Iron	Fluoride			
Etah	Jasrana	Least	Severe	Least					
Etah	Shikohabad	Least	Severe	Least					
Etah	Kashganj	Least	Safe	Least					
Etah	Amanpur	Least	Safe	Least					
Etah	Sahawar	Least	Safe	Least					
Etah	Ganj Dundwara	Least	Safe	Least	Iron				
Etah	Patiyali	Least	Safe	Least					
Etah	Sidhpura	Least	Safe	Severe					
Etah	Jalesar	Least	Least	Severe				Salinity	
Etah	Awagarh	Least	Least	Least	Iron				



Annexure VI.12

Block Wise Drinking Water Quality

District Name	Block Name	Problem in Surface Water Quality	Ground Water Availability Status	Problem with Water Quality Status	Iron	Fluoride	Nitrate	Salinity / TDS	Remarks
Etah	Merehra	Least	Severe	Least	Iron				
Etah	Nidhauli Kalan	Least	Least	Least					
Etah	Shitalpur	Least	Safe	Least	Iron	Fluoride		Salinity	
Etah	Sakit	Least	Severe	Least	Iron			Salinity	
Etah	Jaithara	Least	Least	Least					
Etah	Aliganj	Least	Least	Least					
Mainpuri	Ghiror	Least	Safe	Least					
Mainpuri	Kuraoli	Least	Safe	Least					
Mainpuri	Mainpuri	Least	Safe	Least		Fluoride			
Mainpuri	Barnahal	Least	Least	Least					
Mainpuri	Karhal	Least	Safe	Least					
Mainpuri	Sultanganj	Least	Safe	Least	Iron				
Mainpuri	Bewar	Least	Safe	Least	Iron				
Mainpuri	Alao	Least	Safe	Least					
Mainpuri	Kishni	Least	Safe	Least					
Farrukhabad	Kamalganj	Least	Safe	Least	Iron				Satisfactory
Farrukhabad	Nawabganj	Least	Safe	Least	Iron				
Farrukhabad	Shamsabad	Least	Safe	Least					
Farrukhabad	Rajepur	Moderate	Safe	Least	Iron	Fluoride			
Farrukhabad	Barhapura	Least	Severe	Least	Iron	Fluoride	Nitrate		
Farrukhabad	Mohamadabad	Least	Least	Least		Fluoride			



Annexure VI.12

Block Wise Drinking Water Quality

District Name	Block Name	Problem in Surface Water Quality	Ground Water Availability Status	Problem with Water Quality Status	Iron	Fluoride	Nitrate	Salinity / TDS	Remarks
Farrukhabad	Kamalganj	Least	Moderate	Least	Iron				
Kannauj	Chhibramau	Least	Safe	Least	Iron				
Kannauj	Talgram	Least	Least	Least			Nitrate		
Kannauj	Saurikh	Least	Safe	Least					
Kannauj	Haseran	Least	Safe	Least	Iron				
Kannauj	Jalalabad	Least	Least	Moderate	Iron	Fluoride			
Kannauj	Kannauj	Least	Least	Least	Iron				
Kannauj	Umarda	Least	Safe	Moderate	Iron	Fluoride			
Kannauj	Gugrajpur	Na	Safe	Na					
Etawah	Jaswant Nagar	Least	Safe	Least	Iron	Fluoride			
Etawah	Basrehar	Least	Safe	Least					
Etawah	Barhapura	Least	Safe	Least					
Etawah	Takha	Least	Safe	Least	Iron				
Etawah	Bharthana	Least	Safe	Least	Iron				
Etawah	Mahewa	Least	Safe	Least	Iron				
Etawah	Chakar Nagar	Least	Safe	Least	Iron				
Etawah	Saifai	Least	Safe	Least					
Auraiya	Erwa Katra	Least	Safe	Least	Iron		Nitrate		
Auraiya	Bidhuna	Least	Least	Least	Iron		Nitrate		
Auraiya	Achhalda	Least	Safe	Moderate	Iron	Fluoride	Nitrate		
Auraiya	Sahar	Least	Safe	Least	Iron		Nitrate		



Annexure VI.12

Block Wise Drinking Water Quality

District Name	Block Name	Problem in Surface Water Quality	Ground Water Availability Status	Problem with Water Quality Status	Iron	Fluoride	Nitrate	Salinity / TDS	Remarks
Auraiya	Ajitmal	Least	Safe	Severe	Iron	Fluoride	Nitrate		
Auraiya	Bhagya Nagar	Least	Safe	Least	Iron		Nitrate		
Auraiya	Auraiya	Least	Safe	Moderate	Iron	Fluoride			
Ramabai Nagar	Rasulabad	Least	Safe	Least	Iron	Fluoride		Salinity	Water Quality is Few blocks in Heavily Deteriorated where fluoride is in excess
Ramabai Nagar	Jhinhak	Least	Safe	Least	Iron				
Ramabai Nagar	Maitha	Least	Safe	Least	Iron		Nitrate		
Ramabai Nagar	sandalpur	Least	Safe	Least	Iron		Nitrate		
Ramabai Nagar	Derapur	Least	Safe	Least	Iron	Fluoride			
Ramabai Nagar	Akbarpur	Least	Safe	Least	Iron				
Ramabai Nagar	Sarwankhera	Least	Safe	Least	Iron	Fluoride		Salinity	
Ramabai Nagar	Rajpur	Least	Safe	Least	Iron				
Ramabai Nagar	Malasa	Least	Safe	Least	Iron				
Ramabai Nagar	Amrodha	Least	Safe	Least	Iron				
Kanpur Nagar	Kalyanpur	Least	Safe	Least	Iron	Fluoride			Overall Water Quality at Kanpur is deteriorating apart from fluoride biological contaminants & Trace of chromium & Other Heavy Metals are also
Kanpur Nagar	Vidhunu	Least	Safe	Least	Iron	Fluoride		Salinity	
Kanpur Nagar	Sarsol	Least	Safe	Least	Iron	Fluoride			



Annexure VI.12

Block Wise Drinking Water Quality

District Name	Block Name	Problem in Surface Water Quality	Ground Water Availability Status	Problem with Water Quality Status	Iron	Fluoride	Nitrate	Salinity / TDS	Remarks
Kanpur Nagar	Billhaur	Least	Safe	Least	Iron				present. Plats capable of clearing up of heavy metal by absorbing may be used.
Kanpur Nagar	Kakwan	Least	Safe	Least	Iron				
Kanpur Nagar	Shivrajpur	Least	Least	Least	Iron				
Kanpur Nagar	Chaubepur	Least	Safe	Least	Iron				
Kanpur Nagar	Patara	Least	Safe	Least	Iron				
Kanpur Nagar	Bhitargaon	Least	Safe	Least	Iron	Fluoride			
Kanpur Nagar	Ghatampur	Least	Safe	Least	Iron		Nitrate		
Fatehpur	Devmai	Least	Least	Least					Drinking Water Quality is Satisfactory
Fatehpur	Malwan	Least	Safe	Least					
Fatehpur	Amauli	Least	Safe	Least	Iron			Salinity	
Fatehpur	Khajuha	Least	Safe	Least	Iron				
Fatehpur	Telyani	Least	Safe	Least	Iron				
Fatehpur	Bhitora	Least	Safe	Least	Iron	Fluoride		Salinity	
Fatehpur	Haswa	Least	Safe	Least	Iron	Fluoride		Salinity	
Fatehpur	Bahuwa	Least	Safe	Least	Iron	Fluoride			
Fatehpur	Asodhar	Least	Safe	Least		Fluoride			
Fatehpur	Hathgaon	Least	Safe	Least		Fluoride			
Fatehpur	Airaya	Least	Least	Least		Fluoride			



Annexure VI.12

Block Wise Drinking Water Quality

District Name	Block Name	Problem in Surface Water Quality	Ground Water Availability Status	Problem with Water Quality Status	Iron	Fluoride	Nitrate	Salinity / TDS	Remarks
Fatehpur	Vijaypur	Least	Least	Least	Iron				Water Quality is Satisfactory
Fatehpur	Dhata	Least	Safe	Least		Fluoride			
Kaushambi	Kara	Least	Safe	Least					
Kaushambi	Sirathu	Least	Safe	Least					
Kaushambi	Sarsawan	Least	Safe	Least					
Kaushambi	Manjhannpur	Least	Safe	Least					
Kaushambi	Kaushambi	Least	Safe	Least				Salinity	
Kaushambi	Murtaganj	Least	Safe	Least					
Kaushambi	Chail	Least	Least	Least		Fluoride			
Kaushambi	Newada	Least	Safe	Least				Salinity	



Annexure VI.13

Conjunctive Plan for Ramganga Command Area Year 2007 - 2008

Conjunctive Plan for District Auraiya Year 2007 - 2008			
Crop	Gross Cropped Area	Net Sown Area Dist Auraiya (Hect) 144237	Net Sown Area (%)
Rabi	129887		90.05
Kharif	106269		73.68
Zaid	2653		1.84
Total	238809		165.57

Projected Irrigated Gross Cropped Area (for 200% Cropping Intensity)			
Crop	Cropping Intensity%	Net Sown Area Dist Auraiya (Hect) 144237	Projected Cropped Area Hect.
Rabi	100		144237.00
Kharif	70		100965.90
Zaid	30		43271.10
Total	200		288474.00

Gross Cropped Area Irrigated at Present

Crop	Gross Area Sown	Net Sown Area Dist Auraiya (Hect) 144237	% of Net Sown Area
Rabi	120444		83.50
Kharif	64325		44.60
Zaid	2649		1.84
Total	187418		129.94

Area to be Provided under Irrigation Facilities (Hect)

Crop	Projected Gross Cropped Area	Gross Area Sown	Balance Area for Irrigation (Hect)
Rabi	144237.00	12044	23793.00
Kharif	100965.90	64325	36640.90
Zaid	43271.10	2649	40622.10
Total			101056.00

Water Requirement Cropwise

Assuming 50cm. Water depth for Kharif 40cm for Rabi and 100cm for Zaid the Total Water Requirement is given below. In Kharif only supplemental irrigation will be required as several crops may not need any irrigation other than rainfall.

Crop	Water Depth cm.	Area to be provided under Irrigation (Hect.)	Water Depth mt.	Total Water Requirement (Hect.mt.)
Rabi	40	23793	0.4	9517.20
Kharif	50	36640.9	0.5	18320.45
Zaid	100	40622.1	1.0	40622.10
Total				68459.75

Groundwater Balance available for Irrigation as on 31.03.2004, 30368 Hect.mt.

Contd.,



Conjunctive Plan for District Aligarh Year 2007 - 2008

Crop	Gross Cropped Area	Net Sown Area Dist Aligarh (Hect) 302299	Net Sown Area (%)
Rabi	279375		92.42
Kharif	213719		70.70
Zaid	20670		6.84
Total	513764		169.96

Projected Irrigated Gross Cropped Area (for 200% Cropping Intensity)			
Crop	Cropping Intensity%	Net Sown Area Dist Aligarh (Hect) 302299	Projected Cropped Area Hect.
Rabi	100		302299.00
Kharif	70		211609.30
Zaid	30		90689.70
Total	200		604598.00

Gross Cropped Area Irrigated at Present

Crop	Gross Area Sown	Net Sown Area Dist Aligarh (Hect) 302299	% of Net Sown Area
Rabi	282663		93.50
Kharif	127589		42.21
Zaid	21324		7.05
Total	431576		142.76

Area to be Provided under Irrigation Facilities (Hect)

Crop	Projected Gross Cropped Area	Gross Area Sown	Balance Area for Irrigation (Hect)
Rabi	302299.00	282663	19636.00
Kharif	211609.00	127589	84020.00
Zaid	90689.70	21324	69365.70
Total			173021.70

Water Requirement Crop wise

Assuming 50cm. Water depth for Kharif 40cm for Rabi and 100cm for Zaid the Total Water Requirement is given below. In Kharif only supplemental irrigation will be required as several crops may not need any irrigation other than rainfall.

Crop	Water Depth cm.	Area to be provided under Irrigation (Hect.)	Water Depth mt.	Total Water Requirement (Hect.mt.)
Rabi	40	19636.00	0.4	7854.40
Kharif	50	84020.00	0.5	42010.00
Zaid	100	69365.70	1.0	69365.70
Total				119230.10

Groundwater Balance available for Irrigation as on 31.03.2004, 15948 Hect.mt.

Contd.,



Annexure VI.13

Conjunctive Plan for District Agra Year 2007 - 2008

Crop	Gross Cropped Area	Net Sown Area Dist Agra (Hect) 282239	Net Sown Area (%)
Rabi	263230		93.26
Kharif	141475		50.13
Zaid	9516		3.37
Total	414221		146.76

Projected Irrigated Gross Cropped Area (for 200% Cropping Intensity)			
Crop	Cropping Intensity%	Net Sown Area Dist Agra (Hect) 302299	Projected Cropped Area Hect.
Rabi	100		282239.00
Kharif	70		197567.30
Zaid	30		84671.70
Total	200		564478.00

Gross Cropped Area Irrigated at Present

Crop	Gross Area Sown	Net Sown Area Dist Agra (Hect) 302299	% of Net Sown Area
Rabi	252611		89.50
Kharif	8425		2.99
Zaid	9511		3.37
Total	270547		95.86

Area to be Provided under Irrigation Facilities (Hect)

Crop	Projected Gross Cropped Area	Gross Area Sown	Balance Area for Irrigation (Hect)
Rabi	282239.00	252611	29628.00
Kharif	197567.30	8425	189142.30
Zaid	84671.70	9511	76160.70
Total			294931.00

Water Requirement Cropwise

Assuming 50cm. Water depth for Kharif 40cm for Rabi and 100cm for Zaid the Total Water Requirement is given below. In Kharif only supplemental irrigation will be required as several crops may not need any irrigation other than rainfall.

Crop	Water Depth cm.	Area to be provided under Irrigation (Hect.)	Water Depth mt.	Total Water Requirement (Hect.mt.)
Rabi	40	29628.00	0.4	11851.20
Kharif	50	189142.30	0.5	94571.15
Zaid	100	294931.00	1.0	294931.00
Total				401353.35

Groundwater Balance available for Irrigation as on 31.03.2004, 8082 Hect.mt.

Contd.,



Conjunctive Plan for District Etah Year 2007 - 2008

Crop	Gross Cropped Area	Net Sown Area Dist Etah (Hect) 187659	Net Sown Area (%)
Rabi	178975		95.37
Kharif	117417		62.57
Zaid	11511		6.13
Total	307903		164.07

Projected Irrigated Gross Cropped Area (for 200% Cropping Intensity)			
Crop	Cropping Intensity%	Net Sown Area Dist Etah (Hect) 187659	Projected Cropped Area Hect.
Rabi	100		187659.00
Kharif	70		131361.30
Zaid	30		56297.70
Total	200		375318.00

Gross Cropped Area Irrigated at Present

Crop	Gross Area Sown	Net Sown Area Dist Etah (Hect) 187659	% of Net Sown Area
Rabi	306610		163.39
Kharif	145381		77.47
Zaid	28393		15.13
Total	480384		255.99

Area to be Provided under Irrigation Facilities (Hect)

Crop	Projected Gross Cropped Area	Gross Area Sown	Balance Area for Irrigation (Hect)
Rabi	187659.00	306610	-118951.00
Kharif	131361.30	145381	-14019.70
Zaid	56297.70	28393	27904.70
Total			-105066.00

Water Requirement Crop wise

Assuming 50cm. Water depth for Kharif 40cm for Rabi and 100cm for Zaid the Total Water Requirement is given below. In Kharif only supplemental irrigation will be required as several crops may not need any irrigation other than rainfall.

Crop	Water Depth cm.	Area to be provided under Irrigation (Hect.)	Water Depth mt.	Total Water Requirement (Hect.mt.)
Rabi	40	-118951.00	0.4	-47580.40
Kharif	50	-14019.70	0.5	-7009.85
Zaid	100	27904.70	1.0	27904.70
Total				-26685.55

Groundwater Balance available for Irrigation as on 31.03.2004, 21176 Hect.mt.

Contd.,



Annexure VI.13

Conjunctive Plan for District Etawah Year 2007 - 2008

Crop	Gross Cropped Area	Net Sown Area Dist Etawah (Hect) 145797	Net Sown Area (%)
Rabi	129982		89.15
Kharif	105873		72.62
Zaid	5365		1.00
Total	241220		162.77

Projected Irrigated Gross Cropped Area (for 200% Cropping Intensity)			
Crop	Cropping Intensity%	Net Sown Area Dist Etawah (Hect) 145797	Projected Cropped Area Hect.
Rabi	100		145797.00
Kharif	70		102057.90
Zaid	30		43739.10
Total	200		291594.00

Gross Cropped Area Irrigated at Present

Crop	Gross Area Sown	Net Sown Area Dist Etawah (Hect) 145797	% of Net Sown Area
Rabi	120707		82.79
Kharif	56950		39.06
Zaid	5312		3.64
Total	182969		125.49

Area to be Provided under Irrigation Facilities (Hect)

Crop	Projected Gross Cropped Area	Gross Area Sown	Balance Area for Irrigation (Hect)
Rabi	145797.00	120707	10036.00
Kharif	102057.90	56950	22553.50
Zaid	43739.10	5312	38427.00
Total			71016.50

Water Requirement Crop wise

Assuming 50cm. Water depth for Kharif 40cm for Rabi and 100cm for Zaid the Total Water Requirement is given below. In Kharif only supplemental irrigation will be required as several crops may not need any irrigation other than rainfall.

Crop	Water Depth cm.	Area to be provided under Irrigation (Hect.)	Water Depth mt.	Total Water Requirement (Hect.mt.)
Rabi	40	25090.00	0.4	10036.00
Kharif	50	45107.00	0.5	22553.50
Zaid	100	38427.00	1.0	38427.00
Total				71016.50

Groundwater Balance available for Irrigation as on 31.03.2004, 40489 Hect.mt.

Contd.,



Conjunctive Plan for District Firozabad Year 2007 - 2008

Crop	Gross Cropped Area	Net Sown Area Dist Firozabad (Hect) 180964	Net Sown Area (%)
Rabi	173566		95.91
Kharif	100576		55.58
Zaid	12685		7.01
Total	286827		158.5

Projected Irrigated Gross Cropped Area (for 200% Cropping Intensity)			
Crop	Cropping Intensity%	Net Sown Area Dist Firozabad (Hect) 180964	Projected Cropped Area Hect.
Rabi	100		180964.00
Kharif	70		126674.80
Zaid	30		54289.20
Total	200		361928.00

Gross Cropped Area Irrigated at Present

Crop	Gross Area Sown	Net Sown Area Dist Firozabad (Hect) 180964	% of Net Sown Area
Rabi	172899		95.54
Kharif	35715		19.74
Zaid	12661		7.00
Total	221275		122.28

Area to be Provided under Irrigation Facilities (Hect)

Crop	Projected Gross Cropped Area	Gross Area Sown	Balance Area for Irrigation (Hect)
Rabi	180964.00	172899	8065.00
Kharif	126674.80	35715	90959.80
Zaid	54289.20	12661	41628.20
Total			140653.00

Water Requirement Cropwise

Assuming 50cm. Water depth for Kharif 40cm for Rabi and 100cm for Zaid the Total Water Requirement is given below. In Kharif only supplemental irrigation will be required as several crops may not need any irrigation other than rainfall.

Crop	Water Depth cm.	Area to be provided under Irrigation (Hect.)	Water Depth mt.	Total Water Requirement (Hect.mt.)
Rabi	40	8065.00	0.4	3226.00
Kharif	50	90959.80	0.5	45479.90
Zaid	100	41628.20	1.0	41628.20
Total				90334.10

Groundwater Balance available for Irrigation as on 31.03.2004, 11739 Hect.mt.

Contd.,



Annexure VI.13

Conjunctive Plan for District Farrukhabad Year 2007 - 2008			
Crop	Gross Cropped Area	Net Sown Area Dist Farrukhabad (Hect) 148614	Net Sown Area (%)
Rabi	122075		82.14
Kharif	79827		53.71
Zaid	13124		8.83
Total	215026		144.68

Projected Irrigated Gross Cropped Area (for 200% Cropping Intensity)			
Crop	Cropping Intensity%	Net Sown Area Dist Farrukhabad (Hect) 148614	Projected Cropped Area Hect.
Rabi	100		148614.00
Kharif	70		104029.80
Zaid	30		44584.20
Total	200		297228.00

Gross Cropped Area Irrigated at Present			
Crop	Gross Area Sown	Net Sown Area Dist Farrukhabad (Hect) 148614	% of Net Sown Area
Rabi	121165		81.53
Kharif	45196		30.41
Zaid	13094		8.81
Total	179455		120.75

Area to be Provided under Irrigation Facilities (Hect)			
Crop	Projected Gross Cropped Area	Gross Area Sown	Balance Area for Irrigation (Hect)
Rabi	148614.00	121165	27449.00
Kharif	104029.80	45196	58833.80
Zaid	44584.20	13094	31490.20
Total			117773.00

Water Requirement Crop wise

Assuming 50cm. Water depth for Kharif 40cm for Rabi and 100cm for Zaid the Total Water Requirement is given below. In Kharif only supplemental irrigation will be required as several crops may not need any irrigation other than rainfall.

Crop	Water Depth cm.	Area to be provided under Irrigation (Hect.)	Water Depth mt.	Total Water Requirement (Hect.mt.)
Rabi	40	27449.00	0.4	10979.60
Kharif	50	58833.80	0.5	29416.90
Zaid	100	31490.20	1.0	31490.20
Total				71886.70

Groundwater Balance available for Irrigation as on 31.03.2004, 15565 Hect.mt.

Contd.,



Annexure VI.13				
Conjunctive Plan for District Fatehpur Year 2007 - 2008				
Crop	Gross Cropped Area	Net Sown Area Dist Fatehpur (Hect) 288738		Net Sown Area (%)
Rabi	230899			79.97
Kharif	168836			58.47
Zaid	4150			1.44
Total	403885			139.88
Projected Irrigated Gross Cropped Area (for 200% Cropping Intensity)				
Crop	Cropping Intensity%	Net Sown Area Dist Fatehpur (Hect) 288738		Projected Cropped Area Hect.
Rabi	100			288738.00
Kharif	70			202116.60
Zaid	30			86621.40
Total	200			577476.00
Gross Cropped Area Irrigated at Present				
Crop	Gross Area Sown	Net Sown Area Dist Fatehpur (Hect) 288738		% of Net Sown Area
Rabi	168781			58.45
Kharif	92556			32.06
Zaid	4106			1.42
Total	265443			91.93
Area to be Provided under Irrigation Facilities (Hect)				
Crop	Projected Gross Cropped Area	Gross Area Sown		Balance Area for Irrigation (Hect)
Rabi	288738.00	168781		119957.00
Kharif	202116.60	92556		109560.60
Zaid	86621.40	4106		82515.40
Total				312033.00
Water Requirement Crop wise				
Assuming 50cm. Water depth for Kharif 40cm for Rabi and 100cm for Zaid the Total Water Requirement is given below. In Kharif only supplemental irrigation will be required as several crops may not need any irrigation other than rainfall.				
Crop	Water Depth cm.	Area to be provided under Irrigation (Hect.)	Water Depth mt.	Total Water Requirement (Hect.mt.)
Rabi	40	119957.00	0.4	47982.80
Kharif	50	109560.60	0.5	54780.30
Zaid	100	82515.40	1.0	82515.40
Total				185278.50
Groundwater Balance available for Irrigation as on 31.03.2004. 36226 Hect.mt.				

Groundwater Balance available for Irrigation as on 31.03.2004, 36226 Hect.mt.

Contd.,



Annexure VI.13

Conjunctive Plan for District Kannauj Year 2007 - 2008			
Crop	Gross Cropped Area	Net Sown Area Dist Kannauj (Hect) 143582	Net Sown Area (%)
Rabi	129686		90.32
Kharif	84874		59.11
Zaid	12216		8.51
Total	226776		157.94

Projected Irrigated Gross Cropped Area (for 200% Cropping Intensity)			
Crop	Cropping Intensity%	Net Sown Area Dist Kannauj (Hect) 143582	Projected Cropped Area Hect.
Rabi	100		143582.00
Kharif	70		100507.40
Zaid	30		43074.60
Total	200		287164.00

Gross Cropped Area Irrigated at Present

Crop	Gross Area Sown	Net Sown Area Dist Kannauj (Hect) 143582	% of Net Sown Area
Rabi	129031		89.87
Kharif	36951		25.74
Zaid	12100		8.43
Total	178082		124.04

Area to be Provided under Irrigation Facilities (Hect)

Crop	Projected Gross Cropped Area	Gross Area Sown	Balance Area for Irrigation (Hect)
Rabi	143582.00	129031	14551.00
Kharif	100507.40	36951	63556.40
Zaid	43074.60	12100	30974.60
Total			109082.00

Water Requirement Crop wise

Assuming 50cm. Water depth for Kharif 40cm for Rabi and 100cm for Zaid the Total Water Requirement is given below. In Kharif only supplemental irrigation will be required as several crops may not need any irrigation other than rainfall.

Crop	Water Depth cm.	Area to be provided under Irrigation (Hect.)	Water Depth mt.	Total Water Requirement (Hect.mt.)
Rabi	40	14551.00	0.4	5820.40
Kharif	50	63556.40	0.5	31778.20
Zaid	100	30974.60	1.0	30974.60
Total				68573.20

Groundwater Balance available for Irrigation as on 31.03.2004, 24000 Hect.mt.

Contd.,



Conjunctive Plan for District Ramabai Nagar Year 2007 - 2008			
Crop	Gross Cropped Area	Net Sown Area Dist Ramabai Nagar (Hect) 223549	Net Sown Area (%)
Rabi	183036		81.88
Kharif	130132		58.21
Zaid	2529		1.13
Total	315697		141.22

Projected Irrigated Gross Cropped Area (for 200% Cropping Intensity)			
Crop	Cropping Intensity%	Net Sown Area Dist Ramabai Nagar (Hect) 223549	Projected Cropped Area Hect.
Rabi	100		223549.00
Kharif	70		156484.30
Zaid	30		67064.70
Total	200		447098.00

Gross Cropped Area Irrigated at Present			
Crop	Gross Area Sown	Net Sown Area Dist Ramabai Nagar (Hect) 223549	% of Net Sown Area
Rabi	149153		66.72
Kharif	59913		26.80
Zaid	2514		1.12
Total	211580		94.64

Area to be Provided under Irrigation Facilities (Hect)			
Crop	Projected Gross Cropped Area	Gross Area Sown	Balance Area for Irrigation (Hect)
Rabi	223549.00	149153	74396.00
Kharif	156484.00	59913	96571.00
Zaid	67064.00	2514	64550.00
Total			235517.00

Water Requirement Cropwise

Assuming 50cm. Water depth for Kharif 40cm for Rabi and 100cm for Zaid the Total Water Requirement is given below. In Kharif only supplemental irrigation will be required as several crops may not need any irrigation other than rainfall.

Crop	Water Depth cm.	Area to be provided under Irrigation (Hect.)	Water Depth mt.	Total Water Requirement (Hect.mt.)
Rabi	40	74396.00	0.4	29758.40
Kharif	50	96571.00	0.5	48285.50
Zaid	100	64550.00	1.0	64550.00
Total				142593.90

Groundwater Balance available for Irrigation as on 31.03.2004, 44304 Hect.mt.

Contd.,



Annexure VI.13

Conjunctive Plan for District Kanpur Nagar Year 2007 - 2008			
Crop	Gross Cropped Area	Net Sown Area Dist Kanpur Nagar (Hect) 185121	Net Sown Area (%)
Rabi	155191		83.83
Kharif	101369		54.76
Zaid	5095		2.75
Total	261655		141.34

Projected Irrigated Gross Cropped Area (for 200% Cropping Intensity)			
Crop	Cropping Intensity%	Net Sown Area Dist Kanpur Nagar (Hect) 185121	Projected Cropped Area Hect.
Rabi	100		185121.00
Kharif	70		129584.70
Zaid	30		55536.30
Total	200		370242.00

Gross Cropped Area Irrigated at Present			
Crop	Gross Area Sown	Net Sown Area Dist Kanpur Nagar (Hect) 185121	% of Net Sown Area
Rabi	129943		70.19
Kharif	43089		23.28
Zaid	5058		2.73
Total	178090		96.20

Area to be Provided under Irrigation Facilities (Hect)			
Crop	Projected Gross Cropped Area	Gross Area Sown	Balance Area for Irrigation (Hect)
Rabi	185121.00	129943	55178.00
Kharif	129584.70	43089	86495.70
Zaid	55536.30	5058	50478.30
Total			192152.00

Water Requirement Crop wise

Assuming 50cm. Water depth for Kharif 40cm for Rabi and 100cm for Zaid the Total Water Requirement is given below. In Kharif only supplemental irrigation will be required as several crops may not need any irrigation other than rainfall.

Crop	Water Depth cm.	Area to be provided under Irrigation (Hect.)	Water Depth mt.	Total Water Requirement (Hect.mt.)
Rabi	40	55178.00	0.4	22071.20
Kharif	50	86495.70	0.5	43247.85
Zaid	100	50478.30	1.0	50478.30
Total				115797.35

Groundwater Balance available for Irrigation as on 31.03.2004, 28628 Hect.mt.

Contd.,



Annexure VI.13

Conjunctive Plan for District Kaushambi Year 2007 - 2008			
Crop	Gross Cropped Area	Net Sown Area Dist Kaushambi (Hect) 134030	Net Sown Area (%)
Rabi	92775		69.22
Kharif	82683		61.69
Zaid	3276		2.44
Total	178734		133.35

Projected Irrigated Gross Cropped Area (for 200% Cropping Intensity)			
Crop	Cropping Intensity%	Net Sown Area Dist Kaushambi (Hect) 134030	Projected Cropped Area Hect.
Rabi	100		134030.00
Kharif	70		93821.00
Zaid	30		40209.00
Total	200		268060.00

Gross Cropped Area Irrigated at Present			
Crop	Gross Area Sown	Net Sown Area Dist Kaushambi (Hect) 134030	% of Net Sown Area
Rabi	75610		56.41
Kharif	43547		32.49
Zaid	3229		2.41
Total	122386		91.31

Area to be Provided under Irrigation Facilities (Hect)			
Crop	Projected Gross Cropped Area	Gross Area Sown	Balance Area for Irrigation (Hect)
Rabi	134030.00	75610	58420.00
Kharif	93821.00	43547	50274.00
Zaid	40209.00	3229	36980.00
Total			145674.00

Water Requirement Crop wise

Assuming 50cm Water depth for Kharif 40cm for Rabi and 100cm for Zaid the Total Water Requirement is given below. In Kharif only supplemental irrigation will be required as several crops may not need any irrigation other than rainfall.

Crop	Water Depth cm.	Area to be provided under Irrigation (Hect.)	Water Depth mt.	Total Water Requirement (Hect.mt.)
Rabi	40	58420.00	0.4	23368.00
Kharif	50	50274.00	0.5	25137.00
Zaid	100	36980.00	1.0	36980.00
Total				85485.00

Groundwater Balance available for Irrigation as on 31.03.2004, 15086 Hect.mt.

Contd.,



Annexure VI.13

Conjunctive Plan for District Mahamaya Nagar Year 2007 - 2008			
Crop	Gross Cropped Area	Net Sown Area Dist Mahamaya Nagar (Hect)	Net Sown Area (%)
Rabi	138661	148144	93.60
Kharif	78381		52.91
Zaid	14905		10.06
Total	231947		156.57

Projected Irrigated Gross Cropped Area (for 200% Cropping Intensity)			
Crop	Cropping Intensity%	Net Sown Area Dist Mahamaya Nagar (Hect)	Projected Cropped Area Hect.
Rabi	100	148144	148144.00
Kharif	70		103700.80
Zaid	30		44443.20
Total	200		296288.00

Gross Cropped Area Irrigated at Present			
Crop	Gross Area Sown	Net Sown Area Dist Mahamaya Nagar (Hect)	% of Net Sown Area
Rabi	138638	148144	93.58
Kharif	38121		25.73
Zaid	14905		10.06
Total	191664		129.37

Area to be Provided under Irrigation Facilities (Hect)			
Crop	Projected Gross Cropped Area	Gross Area Sown	Balance Area for Irrigation (Hect)
Rabi	148144.00	138638	9506.00
Kharif	103700.80	38121	65579.80
Zaid	44443.20	14905	29538.20
Total			104624.00

Water Requirement Crop wise

Assuming 50cm. Water depth for Kharif 40cm for Rabi and 100cm for Zaid the Total Water Requirement is given below. In Kharif only supplemental irrigation will be required as several crops may not need any irrigation other than rainfall.

Crop	Water Depth cm.	Area to be provided under Irrigation (Hect.)	Water Depth mt.	Total Water Requirement (Hect.mt.)
Rabi	40	9506.00	0.4	3802.40
Kharif	50	65579.00	0.5	32789.50
Zaid	100	29538.20	1.0	29538.20
Total				66130.10

Groundwater Balance available for Irrigation as on 31.03.2004, 380 Hect.mt.

Contd.,



Conjunctive Plan for District Mainpuri Year 2007 - 2008			
Crop	Gross Cropped Area	Net Sown Area Dist Mainpuri (Hect) 355393	Net Sown Area (%)
Rabi	184551		51.88
Kharif	158765		44.64
Zaid	12377		3.48
Total	355693		100

Projected Irrigated Gross Cropped Area (for 200% Cropping Intensity)			
Crop	Cropping Intensity%	Net Sown Area Dist Mainpuri (Hect) 355393	Projected Cropped Area Hect.
Rabi	100		355693.00
Kharif	70		248985.10
Zaid	30		106707.90
Total	200		711386.00

Gross Cropped Area Irrigated at Present			
Crop	Gross Area Sown	Net Sown Area Dist Mainpuri (Hect) 355393	% of Net Sown Area
Rabi	148418		41.73
Kharif	184550		51.88
Zaid	12377		3.48
Total	345345		97.09

Area to be Provided under Irrigation Facilities (Hect)			
Crop	Projected Gross Cropped Area	Gross Area Sown	Balance Area for Irrigation (Hect)
Rabi	355693.00	184550	171143.00
Kharif	248985.10	148418	100567.10
Zaid	106707.90	12377	94330.90
Total			366041.00

Water Requirement Crop wise

Assuming 50 cm. Water depths for Kharif 40cm for Rabi and 100cm for Zaid the Total Water Requirement is given below. In Kharif only supplemental irrigation will be required as several crops may not need any irrigation other than rainfall.

Crop	Water Depth cm.	Area to be provided under Irrigation (Hect.)	Water Depth mt.	Total Water Requirement (Hect.mt.)
Rabi	40	171143.00	0.4	68457.20
Kharif	50	100567.10	0.5	50283.55
Zaid	100	94330.90	1.0	94330.90
Total				213071.65

Groundwater Balance available for Irrigation as on 31.03.2004, 12993 Hect.mt.

Contd.,



Annexure VI.13

Conjunctive Plan for District Mathura Year 2007 - 2008			
Crop	Gross Cropped Area	Net Sown Area Dist Mathura (Hect) 269737	Net Sown Area (%)
Rabi	260613		96.62
Kharif	129392		47.97
Zaid	4703		1.74
Total	394708		146.33

Projected Irrigated Gross Cropped Area (for 200% Cropping Intensity)			
Crop	Cropping Intensity%	Net Sown Area Dist Mathura (Hect) 269737	Projected Cropped Area Hect.
Rabi	100		269737.00
Kharif	70		188815.90
Zaid	30		80921.10
Total	200		539474.00

Gross Cropped Area Irrigated at Present			
Crop	Gross Area Sown	Net Sown Area Dist Mathura (Hect) 269737	% of Net Sown Area
Rabi	260145		96.44
Kharif	59581		22.09
Zaid	4702		1.74
Total	324428		120.27

Area to be Provided under Irrigation Facilities (Hect)			
Crop	Projected Gross Cropped Area	Gross Area Sown	Balance Area for Irrigation (Hect)
Rabi	269737.00	260145	9592.00
Kharif	188815.90	59581	129234.90
Zaid	80921.10	4702	76219.10
Total			215046.00

Water Requirement Crop wise

Assuming 50cm. Water depth for Kharif 40cm for Rabi and 100cm for Zaid the Total Water Requirement is given below. In Kharif only supplemental irrigation will be required as several crops may not need any irrigation other than rainfall.

Crop	Water Depth cm.	Area to be provided under Irrigation (Hect.)	Water Depth mt.	Total Water Requirement (Hect.mt.)
Rabi	40	9592.00	0.4	3836.80
Kharif	50	129234.90	0.5	64617.45
Zaid	100	76219.10	1.0	76219.10
Total				144673.35

Groundwater Balance available for Irrigation as on 31.03.2004, 14394 Hect.mt.



Annexure VIII.1

List of trees and shrubs encountered in the catchment areas of Ramganga.

Scientific name	Vernacular /Common name	Family
<i>Acacia ferruginea</i>	Safed khair	Mimosaceae
<i>Acacia leucophloea</i>	Reunjha	Mimosaceae
<i>Acacia auriculiformis</i>	Wattle tree	Mimosaceae
<i>Acacia catechu</i>	Khair	Mimosaceae
<i>Acacia eburnea</i>	Kikar	Mimosaceae
<i>Acacia farnesiana</i>	Katangi babul	Mimosaceae
<i>Acacia nilotica</i>	Babul	Mimosaceae
<i>Acer oblongum</i>	Kirmoli	Aceraceae
<i>Acrocarpus fraxinifolius</i>	Mundani	Fabaceae
<i>Adansonia digitata</i>	Khurasani imli	Malvaceae
<i>Adenanthera pavonina</i>	Rakta kambal	Mimosaceae
<i>Adhatoda vasica</i>	Adulasa	Acanthaceae
<i>Adina cordifolia</i>	Haldu	Rubiaceae
<i>Aegle marmelos</i>	Bel	Rutaceae
<i>Agave elatoides</i>	Hemp	Agavaceae
<i>Agave sisalana</i>	Sisal hemp	Agavaceae
<i>Ailanthus excelsa</i>	Maharukh	Simaroubaceae
<i>Alangium salvifolium</i>	Akol	Alangiaceae
<i>Alangium lamarckii</i>	Akol	Alangiaceae
<i>Albizia amara</i>	Seljhari	Mimosaceae
<i>Albizia lebbek</i>	Kala siris	Mimosaceae
<i>Albizia odoratissima</i>	Chichwa	Mimosaceae
<i>Albizia procera</i>	Safed siris / Karha	Mimosaceae
<i>Alstonia scholaris</i>	Salone ki chhal / Chatun	Apocynaceae
<i>Alstonia venenata</i>	Alstonia	Apocynaceae
<i>Anacardium occidentale</i>	Kaju	Anacardiaceae
<i>Annona squamosa</i>	Seethaphal	Annonaceae
<i>Anogeissus pendula</i>	Kardhai	Combretaceae
<i>Anogeissus latifolius</i>	Dhaora / Bakli	Combretaceae
<i>Antidesma diandrum</i>	Khatua	Euphorbiaceae
<i>Ardisia floribunda</i>		Myrsinaceae
<i>Ardisia solanacea</i>	Ardisia	Myrsinaceae
<i>Artocarpus integrifolia</i>	Kathal	Moraceae
<i>Averrhoa carambola</i>	Komarakh	Malpighiaceae



Annexure VIII.1

List of trees and shrubs encountered in the catchment areas of Ramganga.

Scientific name	Vernacular /Common name	Family
<i>Azadirachta indica</i>	Neem	Meliaceae
<i>Balanitis roxburghii</i>	Hingot	Simaroubaceae
<i>Barleria cristata</i>		Acanthaceae
<i>Barleria prionitis</i>	Koranti	Acanthaceae
<i>Bauhinia variegata</i>	Kachnar	Caesalpiniaceae
<i>Bauhinia cordata</i>	Guiral	Caesalpiniaceae
<i>Bauhinia malabarica</i>	Astar	Caesalpiniaceae
<i>Bauhinia purpurea</i>	Keolar	Caesalpiniaceae
<i>Bauhinia purpurea</i>	Kuiral	Caesalpiniaceae
<i>Bauhinia racemosa</i>	Asta	Caesalpiniaceae
<i>Bauhinia racemosa</i>	Jhinjhera	Caesalpiniaceae
<i>Bauhinia retusa</i>	Kandlae / Sehar	Caesalpiniaceae
<i>Bischofia javanica</i>	Ganthi	Bischofiaceae
<i>Boehmeria rugulosa</i>	Ganthi	Urticaceae
<i>Bombax cieba</i>	Simal	Bombacaceae
<i>Bombax malabaricum</i>	Semel / Simal	Bombacaceae
<i>Borassus flabellifer</i>	Tad	Arecaceae
<i>Boswellia serrata</i>	Salai	Burseraceae
<i>Bridelia retusa</i>	Dhai	Euphorbiaceae
<i>Buchanania angustifolia</i>	Bara-achar	Anacardiaceae
<i>Buchanania lanzan</i>	Achar	Anacardiaceae
<i>Buchanania latifolia</i>	Kathbilawa	Anacardiaceae
<i>Butea frondosa</i>	Dhak	Fabaceae
<i>Butea monosperma</i>	Palas / Dhak	Caesalpiniaceae
<i>Caesalpinia bonducella</i>	Chakunda	Mimosaceae
<i>Caesalpinia bonduc</i>	Sagar goti	Caesalpiniaceae
<i>Calamus rotang</i>	Rattan	Arecaceae
<i>Callicarpa macrophylla</i>	Dhaia / Daia	Veberaceae
<i>Callistemon citrinus</i>	Bottle brush or Semal	Myrtaceae
<i>Callistemon viminalis</i>	Bottle brush	Myrtaceae
<i>Calotropis gigantea</i>	Aak	Asclepiadaceae
<i>Calotropis procera</i>	Madar	Asclepiadaceae
<i>Capparis aphylla</i>	Karil	Capparidaceae
<i>Capparis grandis</i>	Pachar	Capparidaceae

Annexure VIII.1

List of trees and shrubs encountered in the catchment areas of Ramganga.

Scientific name	Vernacular /Common name	Family
<i>Capparis horrida</i>	Ulatkanta	Capparidaceae
<i>Careya arborea</i>	Kumbhi	Barringtoniaceae
<i>Careya arborea</i>	Kumbhi	Lecythidaceae
<i>Carissa opaca</i>	Karouda	Apocynaceae
<i>Carissa spinarum</i>	Karonda	Apocynaceae
<i>Caryota urens</i>	Sago palm	Arecaceae
<i>Casearia elliptica</i>	Chille	Flacourtiaceae
<i>Casearia graveolens</i>	Nerra	Flacourtiaceae
<i>Casearia tomentosa</i>	Chille	Flacourtiaceae
<i>Cassia auriculata</i>	Tarwar	Caesaliniaceae
<i>Cassia fistula</i>	Amaltas	Caesaliniaceae
<i>Ceiba pentandra</i>	Gaerten kapok	Malvaceae
<i>Celtis australis</i>	Kharik	Ulmaceae
<i>Chloroxylon swietenia</i>	Bhirra	Meliaceae
<i>Cinnamomum tamala</i>	Dalchin	Lauraceae
<i>Citrus medica</i>		Rutaceae
<i>Cleistanthus collinus</i>	Karra	Euphorbiaceae
<i>Clerodendron infortunatum</i>	Bhant	Verbenaceae
<i>Clerodendron phlomidis</i>	Inni	Verbenaceae
<i>Cochlospermum gossypium</i>	Galgal	Bixaceae
<i>Coculus laurifolius</i>	Tilphara	Menispermaceae
<i>Colebrookia oppsitifolia</i>	Indian Squirrel Tail /Bindu	Lamiaceae
<i>Cordia myxa</i>	Lasora	Cordiaceae
<i>Cordia dichotoma</i>	Lisora	Cordiaceae
<i>Cordia gharaf</i>	Gondi	Cordiaceae
<i>Cordia latifolia</i>	Bara lasora	Cordiaceae
<i>Couropita guinensis</i>	Tope Gala	Lecythidaceae
<i>Crataegus crenulata</i>	Gningar	Rosaceae
<i>Crataeva religiosa</i>	Barna	Capparidaceae
<i>Crataeva unilocularis</i>	Barna	Capparidaceae
<i>Dalbergia latifolia</i>	Shisham	Fabaceae
<i>Dalbergia paniculata</i>	Phansi	Fabaceae
<i>Dalbergia sissoo</i>	Sissoo	Fabaceae
<i>Dalbergia velutina</i>	Tushara / Tushieri	Fabaceae



Annexure VIII.1

List of trees and shrubs encountered in the catchment areas of Ramganga.

Scientific name	Vernacular /Common name	Family
<i>Delonix elata</i>	Piligulmohar	Caesalpiniaceae
<i>Delonix regia</i>	Gulmohar	Caesalpiniaceae
<i>Dendrophthoe falcata</i>	Bandha	Loranthaceae
<i>Dillenia indica</i>	Elephant apple	Dilleniaceae
<i>Dillenia pentagyna</i>	Kalla	Dilleniaceae
<i>Diospyros cordifolia</i>	Bhak tendu	Ebenaceae
<i>Diospyros melanoxylon</i>	Tendu	Ebenaceae
<i>Diospyros tomentosa</i>	Tumri	Ebenaceae
<i>Dodonaea viscosa</i>	Kharenta	Sapindaceae
<i>Dolichandrone atrovirens</i>	Padri	Bignoniaceae
<i>Elaeocarpus sphaericus</i>	Rudraksha	Tiliaceae
<i>Elaeodendron glaucum</i>	Jamrasi	Celastraceae
<i>Elaeodendron roxburghii</i>	Dhebri	Celastraceae
<i>Embelia robusta</i>	Bathbirang	Myrsinaceae
<i>Engelhardtia colobrookiana</i>	Gandhnawa	Juglandaceae
<i>Erhetia laevis</i>	Chamrer	Erhettiaceae
<i>Eriolaena hookeriana</i>	Bhoti	Malvaceae
<i>Erythrina suberosa</i>	Gadha palas / Dheldhak	Fabaceae
<i>Erythrina variegata</i>	Pangara	Fabaceae
<i>Eucalyptus citriodora</i>	Lal neelgiri	Myrtaceae
<i>Eucalyptus comaldulensis</i>	Indori Neelgiri	Myrtaceae
<i>Eucalyptus globulus</i>	Neelgiri	Myrtaceae
<i>Eucalyptus tereticornis</i>	Bari neelgiri	Myrtaceae
<i>Euphorbia royleana</i>	Suni / Surai	Euphorbiaceae
<i>Feronia elephantum</i>	Kaitha	Rutaceae
<i>Ficus benghalensis</i>	Bar	Moraceae
<i>Ficus glomerata</i>	Gular	Moraceae
<i>Ficus microcarpa</i>	Paraspipal	Moraceae
<i>Ficus carica</i>	Anjeer	Moraceae
<i>Ficus hispida</i>	Katgular	Moraceae
<i>Ficus palmata</i>	Anjir	Moraceae
<i>Ficus religiosa</i>	Papal	Moraceae
<i>Ficus tsiela</i>	Pokhar	Moraceae
<i>Flacourtia indica</i>	Bilengur	Flacourtiaceae

Annexure VIII.1

List of trees and shrubs encountered in the catchment areas of Ramganga.

Scientific name	Vernacular /Common name	Family
<i>Flacourtia indica</i>	Kahad	Flacourtiaceae
<i>Flacourtia romentchi</i>	Bilengur	Flacourtiaceae
<i>Gardenia gummifera</i>	Bandar laddu	Rubiaceae
<i>Gardenia latifolia</i>	Papra	Rubiaceae
<i>Gardenia resinifera</i>	Dikamali	Rubiaceae
<i>Gardenia turgida</i>	Phetra / Thenera	Rubiaceae
<i>Garuga pinnata</i>	Karpat /kekad	Burseraceae
<i>Glycomsis pentaphylla</i>		Rutaceae
<i>Gmelina arborea</i>	Gamari / Khambar	Verbenaceae
<i>Grevillea pteridifolia</i>	Golden Parrot tree	Proteaceae
<i>Grevillea robusta</i>	Silver oak	Proteaceae
<i>Grewia abutifolia</i>	Dhaman	Tiliaceae
<i>Grewia asiatica</i>	Dhaman	Tiliaceae
<i>Grewia disperma</i>	Diamiul	Tiliaceae
<i>Grewia elastica</i>	Pharsei	Tiliaceae
<i>Grewia hirsuta</i>	Gursukri	Tiliaceae
<i>Grewia rothii</i>	Khursee	Tiliaceae
<i>Grewia sapida</i>	Phals	Tiliaceae
<i>Grewia subinequalis</i>		Tiliaceae
<i>Grewia tillifolia</i>	Dhaman	Tiliaceae
<i>Hamiltonia suaveolens</i>	Pathere	Rubiaceae
<i>Hardwickia binata</i>	Anjan	Caesalpiniaceae
<i>Helicteris isora</i>	Maror phali	Sterculiaceae
<i>Heteropanax fragrans</i>	Tendu	Araliaceae
<i>Heterophragma quadriculare</i>	Palang	Bignoniaceae
<i>Hibiscus lampas</i>		Malvaceae
<i>Holarrhena antidysenterica</i>	Dudhi/kurchi / Kurha	Apocynaceae
<i>Holmskioldia sanguinea</i>	Katmalla / Kapni	Vebeenaceae
<i>Holoptelia integrifolia</i>	Chrol / Kanju	Ulmaceae
<i>Hymenodictyon excelsum</i>	Bhamar/ Baurang	Rubiaceae
<i>Ipomoea alba</i>	Moon flower	Convolvulaceae
<i>Ixora arborea</i>	Lekhady	Rubiaceae
<i>Ixora parviflora</i>	Lokhandi	Rubiaceae
<i>Jacaranda ovalifolia</i>	Jacaranda	Bignoniaceae



Annexure VIII.1

List of trees and shrubs encountered in the catchment areas of Ramganga.

Scientific name	Vernacular /Common name	Family
<i>Jatropha curcas</i>	Stanjet	Euphorbiaceae
<i>Kydina calycina</i>	Barang	Malvaceae
<i>Lagerstroemia parviflora</i>	Lendia / Dhaura	Lythraceae
<i>Lannea coromandelica</i>	Jhingan	Anacardiaceae
<i>Lannea grandis</i>	Gonjan/moyan	Anacardiaceae
<i>Lantana aculeata</i>	Vidhasiny	Veberaceae
<i>Lantana camara</i>	Lantana	Veberaceae
<i>Leea aspera</i>	Kunwai	Leeaceae
<i>Leea aspera</i>	Kunwai / Hathipan	Leeaceae
<i>Limonia acidissima</i>	Bilsona	Rutaceae
<i>Litsea chinensis</i>	Maida	Lauraceae
<i>Litsea glutinosa</i>	Maidalkady	Lauraceae
<i>Litsea monopetala</i>		Lauraceae
<i>Litsea polyantha</i>	Katnara	Lauraceae
<i>Litsea sebifera</i>	Maida lakri	Lauraceae
<i>Machilus odoratissima</i>	Kaula	Lauraceae
<i>Madhuca indica</i>	Mahua	Sapotaceae
<i>Maduca longifolia</i>	Mahuva	Sapotaceae
<i>Mallotus philippinensis</i>	Reli / Rohini	Euphorbiaceae
<i>Mangifera indica</i>	Aam	Anacardiaceae
<i>Manilkara hexanadra</i>	Milk fruit tree	Sapotaceae
<i>Manilkara zapota</i>	Sapota	Sapotaceae
<i>Melia azadirachta</i>	Bakain	Meliaceae
<i>Miliusa velutina</i>	Domsal	Annonaceae
<i>Mimusops elengi</i>	Pogada	Sapotaceae
<i>Mitragyna parviflora</i>	Mundi/Klain	Rubiaceae
<i>Moringa olerifera</i>	Munja	Moringaceae
<i>Moringa pterigosperma</i>	Sheenjna /Sehjne	Moringaceae
<i>Murraya exotica</i>	Maichia	Rutaceae
<i>Murraya paniculata</i>		Rutaceae
<i>Murrya koenigii</i>	Curry leaf	Rutaceae
<i>Myrica nagi</i>	Kaphal	Myricaceae
<i>Nerium indicum</i>		Apocynaceae
<i>Nyctanthes arbor-tristis</i>	Harsinghar	Oleaceae

Annexure VIII.1

List of trees and shrubs encountered in the catchment areas of Ramganga.

Scientific name	Vernacular /Common name	Family
<i>Odina odier</i>		Anacardiaceae
<i>Olea grandulifera</i>	Gair	Oleaceae
<i>Opuntia dillenii</i>	Nagphani	Cactaceae
<i>Oroxylon indicum</i>	Jaimangal	Bignoniaceae
<i>Osyris arborea</i>	Dalnu / Bakrool	Santalaceae
<i>Ougeinia ougeinensis</i>	Sandan	Fabaceae
<i>Ougeinia dalbergioides</i>	Sandan /Tinsa	Fabaceae
<i>Ougenia operculata</i>	Pianum	Myrtaceae
<i>Phoebe lanceolata</i>	Kaikra	Lauraceae
<i>Phoenix acaulis</i>	Chhind	Arecaceae
<i>Phoenix dactylifera</i>	Khajur	Arecaceae
<i>Phoenix humilis</i>	Bari chhind	Arecaceae
<i>Phoenix sylvestris</i>	Khajur	Arecaceae
<i>Phyllanthus emblica</i>	Amla	Euphorbiaceae
<i>Pieris ovalifolia</i>	Ayar	Ericaceae
<i>Piliostigma malabaricum</i>	Kachnar	Caesalpiniaceae
<i>Pinus longifolia</i>	Chir (Conifer)	Pinaceae
<i>Pinus roxburghii</i>	Chir pine (Conifer)	Pinaceae
<i>Pithecellobium dulce</i>	Jangal jalebi	Mimosaceae
<i>Pittosporum floribundum</i>	Tumbri	Flacourtiaceae
<i>Pittosporum nepaulense</i>	Tumbri	Flacourtiaceae
<i>Pogostemon plectrantheoides</i>	Rodara / Rauduna	Lamiaceae
<i>Pongamia pinnata</i>	Karanj	Fabaceae
<i>Populus deltoids</i>	Poplar	Salicaceae
<i>Pterocarpus marsupium</i>	Bija	Fabaceae
<i>Purinjiva roxburghii</i>	Juti	Euphorbiaceae
<i>Pyrus pashia</i>	Mahal	Rosaceae
<i>Quercus incana</i>	Banj	Fagaceae
<i>Quercus leucotrichophora</i>	Banj Oak	Fagaceae
<i>Randia dumetorum</i>	Mainphal	Rubiaceae
<i>Randia uliginosa</i>	Kalaphetra / Pindalu	Rubiaceae
<i>Rhododendron arboretum</i>	Burans	Ericaceae
<i>Rhus parviflora</i>	Tungla	Anacardiaceae
<i>Rubus ellipticus</i>	Hisar / Lalanchhu	Rosaceae



Annexure VIII.1

List of trees and shrubs encountered in the catchment areas of Ramganga.

Scientific name	Vernacular /Common name	Family
<i>Salmalia malabarica</i>	Semal	Malvaceae
<i>Salvadora persica</i>	Pilu	Salvadoraceae
<i>Samaea saman</i>	Prain	Mimosaceae
<i>Samanea saman</i>	Rain tree	Caesaliniaceae
<i>Sapium insigne</i>	Khina	Euphorbiaceae
<i>Sassia fistula</i>	Amaltas	Fabaceae
<i>Saurauia napaulensis</i>	Ganga	Saurauiaceae
<i>Schleichera oleosa</i>	Kusum	Sapindaceae
<i>Schleichera switenioides</i>	Mocha	Sapindaceae
<i>Schleichera trijuga</i>	Kusum	Sapindaceae
<i>Schrebera swietenoides</i>	Banda	Oleaceae
<i>Semecarpus anacardium</i>	Bhilawa	Anacardiaceae
<i>Sesbania grandiflora</i>	Agasta	Fabaceae
<i>Shorea robusta</i>	Sal	Dipterocarpaceae
<i>Soymida febrifuga</i>	Rohan	Meliaceae
<i>Spondias mangifera</i>	Ambara	Anacardiaceae
<i>Spondias pinnata</i>	Amara	Anacardiaceae
<i>Stephegyna parviflora</i>	Mundi	Rubiaceae
<i>Sterculia foetida</i>		Sterculiaceae
<i>Sterculia pallens</i>	Bodala	Sterculiaceae
<i>Sterculia tomentosa</i>		Sterculiaceae
<i>Sterculia urens</i>	Kulu	Sterculiaceae
<i>Sterculia villosa</i>	Udala / Wedala	Sterculiaceae
<i>Stereospermum suaveolens</i>	Padal	Bignoniaceae
<i>Strebulus asper</i>		Moraceae
<i>Strobilanthus callosus</i>	Marua dona	Acanthaceae
<i>Symplocos crataegoides</i>	Lodh	Symplocaceae
<i>Syzygium cumini</i>	Jamun	Myrtaceae
<i>Syzygium heyneanum</i>	Katjamun	Myrtaceae
<i>Tabermontana divaricata</i>	Chandani	Apocynaceae
<i>Tamarindus indica</i>	Imli	Caesaliniaceae
<i>Tamarix dioica</i>	Jhau	Tamariaceae
<i>Tectona grandis</i>	Sagon / teak	Verbenaceae
<i>Tephrosia candida</i>	Boga / Baunter	Fabaceae

Annexure VIII.1

List of trees and shrubs encountered in the catchment areas of Ramganga.

Scientific name	Vernacular /Common name	Family
<i>Terminalia alata</i>		Combretaceae
<i>Terminalia arjuna</i>	Kahua / Arjun	Combretaceae
<i>Terminalia bellirica</i>	Bathera / Bahera	Combretaceae
<i>Terminalia chebula</i>	Harra	Combretaceae
<i>Terminalia tomentosa</i>	Saja / Asna	Combretaceae
<i>Thespesia lampas</i>	Bankapas	Malvaceae
<i>Thespesia populnea</i>	Portia tree	Malvaceae
<i>Toona ciliata</i>	Toon / Tun	Meliaceae
<i>Trema orientalis</i>	Trema	Ulmaceae
<i>Trewia nudiflora</i>	Tumri	Acanthaceae
<i>Trewia nudiflora</i>	Tumri / Gutel	Euphorbiaceae
<i>Urena lobata</i>	bariyara	Malvaceae
<i>Vitex negundo</i>	Nirgundi	Verbenaceae
<i>Wallachia densiflora</i>	Palm (Himalayan)	Arecaceae
<i>Waltheria indica</i>	Angur	Sterculiaceae
<i>Woodfordia floribunda</i>	Dhaul	Lythraceae
<i>Woodfordia fruticosa</i>	Dhoud	Lythraceae
<i>Wrightia tinctoria</i>	Dudhi	Apocynaceae
<i>Wrightia tomentosa</i>	Kali dudhi	Apocynaceae
<i>Zanthoxylum alatum</i>	Timru / Timar	Rutaceae
<i>Ziziphus mauritiana</i>	Ber	Rhamnaceae
<i>Ziziphus nummularia</i>	Jharberi	Rhamnaceae
<i>Ziziphus rotundifolia</i>		Rhamnaceae
<i>Ziziphus xylopyrus</i>	Ghont	Rhamnaceae



Annexure VIII.2

List of perennial climbers / twiners /stragglers found in the command area

Botanical name	Local name	Family
<i>Abrus precatorius</i>	Gunj	Fabaceae
<i>Acacia pennata</i>	Raoni / Agla	Mimosaceae
<i>Acacia rugata</i>	Sikakai	Mimosaceae
<i>Acacia talsia</i>	Gurar	Mimosaceae
<i>Asparagus racemosus</i>	Sataori	Liliaceae
<i>Bauhinia vahlii</i>	Mahul	Caesalpiniaceae
<i>Butea parviflora</i>		Fabaceae
<i>Butea superba</i>	Palasbel	Fabaceae
<i>Caesalpinia bonducella</i>	Sarargoti	Caesalpiniaceae
<i>Calamus guruba</i>	Cane	Poaceae
<i>Calamus tenuis</i>	Bent / Bet	Arecaceae
<i>Calycopteris floribunda</i>	Kukaranj	Combretaceae
<i>Capparis horrida</i>	Hins	Capparaceae
<i>Celastrus paniculata</i>	Malkangni	Celastraceae
<i>Ceropegia candelabrum</i>	Patala	Asclepiadaceae
<i>Ceropegia juncea</i>	Tumbi	Asclepiadaceae
<i>Cissampelos pareira</i>		Menispermaceae
<i>Cissus quadrangularis</i>		Vitaceae
<i>Cissus repanda</i>	Panibel	Vitaceae
<i>Cissus vitigenia</i>		Vitaceae
<i>Clematis gouriana</i>	Indian Traveller's joy	Ranunculaceae
<i>Clitoris ternatea</i>		Fabaceae
<i>Cocculus hirsutus</i>	Farid butti	Menispermaceae
<i>Combretum decandrum</i>	Pivarbel	Combretaceae
<i>Combretum ovalifoilum</i>	Hathisandan	Combretaceae
<i>Cryptolepis buechanani</i>	Nagbel	Asclepiadaceae
<i>Cryptolepis buechanani</i>	Dudhibel	Periplocaceae
<i>Cryptostegia grandiflora</i>		Asclepiadaceae
<i>Cuscuta reflexa</i>	Amarbel	Convolvulaceae
<i>Decalepis hamiltonii</i>	Nannari	Asclepiadaceae
<i>Derris scandens</i>	Pupbel	Fabaceae
<i>Dioscorea daemona</i>	Baichandi	Dioscoreaceae
<i>Eranthemum roseum</i>	Dudhibel	Acanthaceae



Annexure VIII.2

List of perennial climbers / twiners /stragglers found in the command area

Botanical name	Local name	Family
<i>Ficus heterophylla</i>		Moraceae
<i>Ficus scandens</i>	Bedula	Moraceae
<i>Gloriosa superba</i>	Agnisikha	Liliaceae
<i>Gymnema sylvestris</i>	Gudmar	Asclepiadaceae
<i>Hedera helix</i>		Araliaceae
<i>Hemidesmus indicus</i>	Ananta mool	Asclepiadaceae
<i>Hemidesmus indicus</i>	Sugandha	Asclepiadaceae
<i>Hiptage bengalensis</i>	Madumalti	Malpighiaceae
<i>Ichnocarpus frutiscens</i>	Dhimarbel	Apocynaceae
<i>Leptadenia reticulata</i>		Asclepiadaceae
<i>Millettia auriculata</i>	Gauj	Fabaceae
<i>Mucuna pruriens</i>	Kewanch	Fabaceae
<i>Pergularia daemia</i>	Dori	Asclepiadaceae
<i>Piper betel</i>	Pan	Piperaceae
<i>Porana paniculata</i>	Bridal creeper	Convolvulaceae
<i>Smilax macrophylla</i>	Ramdaton	Liliaceae
<i>Smilax zeylanica</i>		Smilacaceae
<i>Spatholobus roxburghii</i>	Nagbel	Fabaceae
<i>Tinospora cordifolia</i>	Gurbel	Menispermaceae
<i>Tylophora indica</i>		Asclepiadaceae
<i>Vallaris heynei</i>	Dudhibel	Apocynaceae
<i>Vallaris solnacea</i>	Dudhibel	Apocynaceae
<i>Ventilago calyculata</i>	Koeti / Kalibel	Rhamnaceae
<i>Vitis latifolia</i>	Paribel	Vitaceae
<i>Wattakaka volubilis</i>	Chikki	Asclepiadaceae
<i>Ziziphus oenoplea</i>	Makor	Rhamnaceae



Annexure VIII.3

List of Bamboos and perennial grasses found in the catchment area

Botanical name	Local name	Family
<i>Andropogon grillus</i>		Poaceae
<i>Andropogon halepensis</i>	Baru	Poaceae
<i>Andropogon monticola</i>		Poaceae
<i>Apluda aristata</i>	Charel	Poaceae
<i>Apluda mutica</i>	Tachla	Poaceae
<i>Arindinaria falcata</i>	Ringal	Poaceae
<i>Aristida cyanantha</i>		Poaceae
<i>Arundinella nepalensis</i>	Bichla / Bichra	Poaceae
<i>Arundo donax</i>	Narkul / Nal	Poaceae
<i>Bambusa polymorpha</i>	Katang bans (Bamboo)	Poaceae
<i>Bambusa ventricosa</i>	Bans (Bamboo)	Poaceae
<i>Bambusa vulgaris</i>	Siamese bans (Bamboo)	Poaceae
<i>Bambusa arundinacea</i>	Katang bans (Bamboo)	Poaceae
<i>Bambusa balcooa</i>	Bans or Bamboo	Poaceae
<i>Bambusa longispiculata</i>	Bans or Bamboo	Poaceae
<i>Bambusa nutans</i>	Bans or Bamboo	Poaceae
<i>Bambusa pallida</i>	Bans or Bamboo	Poaceae
<i>Bambusa tulda</i>	Bans or Bamboo	Poaceae
<i>Bothriochloa intermedia</i>	Sundhaur	Poaceae
<i>Cephalostacyum pergracile</i>	Pani bans	Poaceae
<i>Chrysopogon fulvus</i>	Bhuri	Poaceae
<i>Chrysopogon montanus</i>	Guria / Gari	Poaceae
<i>Cymbopogon flexuosus</i>	Lemon grass	Poaceae
<i>Cymbopogon martini</i>	Mirchis	Poaceae
<i>Cynodon dactylon</i>	Dub	Poaceae
<i>Dendrocalamus calostachys</i>	Bans or Bamboo	Poaceae
<i>Dendrocalamus hamiltonii</i>	Bans or Bamboo	Poaceae
<i>Dendrocalamus hookeri</i>	Bans or Bamboo	Poaceae
<i>Dendrocalamus strictus</i>	Bans or Bamboo	Poaceae
<i>Desmostachya bipinnata</i>	Dab	Poaceae
<i>Erianthus munja</i>		Poaceae
<i>Erianthus ravennae</i>	Basa / Kamal	Poaceae
<i>Eulaliopsis binata</i>	Baib or Bhabar	Poaceae
<i>Gigantochloa macrostachya</i>		Poaceae

Annexure VIII.3

List of Bamboos and perennial grasses found in the catchment area

Botanical name	Local name	Family
<i>Heteropagon contortus</i>	Kumeria	Poaceae
<i>Imperata arundinacea</i>		Poaceae
<i>Imperata cylindrica</i>	Pula	Poaceae
<i>Narenga porphyrocoma</i>	Ganeria	Poaceae
<i>Neyraudia arundinacea</i>		Poaceae
<i>Neyravdia arundinacea</i>	Bichhroo	Poaceae
<i>Phragmites karka</i>	Kukarimusli / Karkas	Poaceae
<i>Pseudosorghum fasciculare</i>		Poaceae
<i>Saccharum bengalense</i>		Poaceae
<i>Saccharum munja</i>	Munz	Poaceae
<i>Saccharum spontaneum</i>	Kansi	Poaceae
<i>Themeda arundinacea</i>	Barikapoor / Ula	Poaceae
<i>Thysanolaena maxima</i>	Tiger Grass	Poaceae
<i>Typha elephantina</i>	Elephant grass	Typhaceae
<i>Vetiveria zizanioides</i>	Khus Khus	Poaceae

Annexure VIII.4

List of trees, shrubs and tall grasses encountered in the command areas of
Ramganga Project.

Latin name	Local / Common name	Family
<i>Acacia ferruginea</i>	Safed khair	Mimosaceae
<i>Acacia leucophloea</i>	Reunjha	Mimosaceae
<i>Acacia auriculiformis</i>	Wattle tree	Mimosaceae
<i>Acacia catechu</i>	Khair	Mimosaceae
<i>Acacia farnesiana</i>	Katangi babul	Mimosaceae
<i>Acacia nilotica</i>	Babul	Mimosaceae
<i>Adina cordifolia</i>	Haldu	Rubiaceae
<i>Aegle marmelos</i>	Bel	Rutaceae
<i>Agave americana</i>	Hemp	Agavaceae
<i>Agave sisalana</i>	Sisal hemp	Agavaceae
<i>Ailanthus excelsa</i>	Maharukh	Simaroubaceae
<i>Alangium salvifolium</i>	Akol	Alangiaceae
<i>Albizia amara</i>	Seljhari	Mimosaceae
<i>Albizia lebeck</i>	Kala siris	Mimosaceae
<i>Albizia odoratissima</i>	Chichwa	Mimosaceae
<i>Albizia procera</i>	Safed siris	Mimosaceae
<i>Alstonia scholaris</i>	Chatun	Apocynaceae
<i>Anacardium occidentale</i>	Kaju	Anacardiaceae
<i>Andropogon halepensis</i>	Baru	Poaceae
<i>Annona reticulata</i>	Ramphal	Anonaceae
<i>Annona squamosa</i>	Seethaphal	Annonaceae
<i>Anogeissus pendula</i>	Kardhai	Combretaceae
<i>Arindinaria falcata</i>	Ringal	Poaceae
<i>Artocarpus integrifolia</i>	Kathal	Moraceae
<i>Arundo donax</i>	Narkul / Nal	Poaceae
<i>Azadiracta indica</i>	Neem	Meliaceae
<i>Bambusa arundinacea</i>	Katang bans	Poaceae
<i>Barleria prionitis</i>	Koranti	Acanthaceae
<i>Bauhinia variegata</i>	Kachnar	Caesalpiniaceae
<i>Bauhinia malabarica</i>	Astar	Caesalpiniaceae
<i>Bauhinia purpurea</i>	Keolar	Caesalpiniaceae
<i>Bauhinia racemosa</i>	Asta	Caesalpiniaceae
<i>Bauhinia retusa</i>	Sehar	Caesalpiniaceae
<i>Borassus flabellifer</i>	Tad	Arecaceae
<i>Butea monosperma</i>	Palas	Fabaceae
<i>Caesalpinia bonduc</i>	Sagar goti	Caesalpiniaceae
<i>Callistemon lanceolatum</i>	Bottle brush	Myrtaceae
<i>Calotropis gigantea</i>	Aak	Asclepiadaceae
<i>Calotropis procera</i>	Madar	Asclepiadaceae
<i>Capparis aphylla</i>	Karil	Capparidaceae
<i>Capparis grandis</i>	Pachar	Capparidaceae

Annexure VIII.4

List of trees, shrubs and tall grasses encountered in the command areas of
Ramganga Project.

Latin name	Local / Common name	Family
<i>Capparis horrida</i>	Ulatkanta	Capparidaceae
<i>Carissa spinarum</i>	Karonda	Apocynaceae
<i>Caryota urens</i>	Sago palm	Arecaceae
<i>Cassia auriculata</i>	Tarwar	Caesaliniaceae
<i>Cassia fistula</i>	Amaltas	Caesaliniaceae
<i>Ceiba pentandra</i>	Gaerten kapok	Malvaceae
<i>Chloroxylon swietenia</i>	Bhirra	Meliaceae
<i>Clerodendron infortunatum</i>	Bhant	Verbenaceae
<i>Clerodendron phlomidis</i>	Inni	Verbenaceae
<i>Cochlospermum gossypium</i>	Galgol	Bixaceae
<i>Cordia myxa</i>	Lasora	Cordiaceae
<i>Cordia latifolia</i>	Bara lasora	Cordiaceae
<i>Couropita guinensis</i>	Tope Gala	Lecythidaceae
<i>Crataeva religiosa</i>	Barna	Capparidaceae
<i>Cymbopogon flexuosus</i>	Lemon grass	Poaceae
<i>Cymbopogon martini</i>	Mirchis	Poaceae
<i>Dalbergia latifolia</i>	Shisham	Fabaceae
<i>Dalbergia paniculata</i>	Phansi	Fabaceae
<i>Dalbergia sissoo</i>	Sissoo	Fabaceae
<i>Delonix elata</i>	Piligulmohar	Caesalpiniaceae
<i>Delonix regia</i>	Gulmohar	Caesalpiniaceae
<i>Dendrocalamus strictus</i>	Bans or Bamboo	Poaceae
<i>Dendrophthoe falcata</i>	Bandha	Loranthaceae
<i>Desmostachya bipinnata</i>	Dab	Poaceae
<i>Diospyros cordifolia</i>	Bhak tendu	Ebenaceae
<i>Diospyros embyopteris</i>	Kalatendu	Ebenaceae
<i>Diospyros melanoxylon</i>	Tendu	Ebenaceae
<i>Diospyros montana</i>	Bistendu	Ebenaceae
<i>Diospyros tomentosa</i>	Tumri	Ebenaceae
<i>Dodonaea viscosa</i>	Kharenta	Sapindaceae
<i>Dolichandrone atrovirens</i>	Padri	Bignoniaceae
<i>Enterlobium saman</i>	Prain	Mimosaceae
<i>Erianthus munja</i>		Poaceae
<i>Erianthus ravennae</i>	Basa / Kamal	Poaceae
<i>Erythrina suberosa</i>	Gadha palas	Fabaceae
<i>Erythrina vriegata</i>	Pangara	Fabaceae
<i>Eucalyptus citriodora</i>	Lal neelgiri	Myrtaceae
<i>Eucalyptus comaldulensis</i>	Indori Neelgiri	Myrtaceae
<i>Eucalyptus globulus</i>	Neelgiri	Myrtaceae
<i>Eucalyptus tereticornis</i>	Bari neelgiri	Myrtaceae
<i>Eulaliopsis binata</i>	Baib or Bhabar	Poaceae

Annexure VIII.4

List of trees, shrubs and tall grasses encountered in the command areas of
Ramganga Project.

Latin name	Local / Common name	Family
<i>Feronia elephantum</i>	Kaitha	Rutaceae
<i>Ficus benghalensis</i>	Bar	Moraceae
<i>Ficus glomerata</i>	Gular	Moraceae
<i>Ficus microcarpa</i>	Paraspipal	Moraceae
<i>Ficus carica</i>	Anjeer	Moraceae
<i>Ficus hispida</i>	Katgular	Moraceae
<i>Ficus palmata</i>	Anjir	Moraceae
<i>Ficus religiosa</i>	Peepal	Moraceae
<i>Ficus retusa</i>	Indian Fig tree	Moraceae
<i>Gardenia resinifera</i>	Dikamali	Rubiaceae
<i>Gigantochloa macrostachya</i>		Poaceae
<i>Gmelina arborea</i>	Gamari	Verbenaceae
<i>Grevillea robusta</i>	Silver oak	Proteaceae
<i>Holoptelia integrifolia</i>	Chrol	Ulmaceae
<i>Imperata arundinacea</i>		Poaceae
<i>Ipomoea carnea</i>	Moon flower	Convolvulaceae
<i>Ixora arborea</i>	Lekhady	Rubiaceae
<i>Ixora parviflora</i>	Lokhandi	Rubiaceae
<i>Jacaranda ovalifolia</i>	Jacaranda	Bignoniaceae
<i>Jatropha curcas</i>	Stanjet	Euphorbiaceae
<i>Lagerstroemia parviflora</i>	Lendia	Lythraceae
<i>Lantana camara</i>	Lantana	Verbenaceae
<i>Limonia acidissima</i>	Bilsona	Rutaceae
<i>Madhuca longifolia</i>	Mahuva	Sapotaceae
<i>Mangifera indica</i>	Aam	Anacardiaceae
<i>Melia azadirachta</i>	Bakain	Meliaceae
<i>Mimusops hexanadra</i>	Rivrani	Sapotaceae
<i>Moringa oleriflora</i>	Munja	Moringaceae
<i>Nyctanthes arbor-tristis</i>	Harsinghar	Oleaceae
<i>Opuntia dillenii</i>	Nagphani	Cactaceae
<i>Phoenix sylvestris</i>	Date palm	Arecaceae
<i>Phragmites karka</i>	Kukarimusli	Poaceae
<i>Phyllanthus emblica</i>	Anola or Amla	Euphorbiaceae
<i>Pithecellobium dulce</i>	Jangal jalebi	Mimosaceae
<i>Pongamia pinnata</i>	Karanj	Fabaceae
<i>Populus deltoides</i>	Populus	Salicaceae
<i>Randia dumetorum</i>	Mainphal	Rubiaceae
<i>Randia uliginosa</i>	Kalaphetra	Rubiaceae
<i>Saccharum bengalense</i>		Poaceae
<i>Saccharum munja</i>	Munz	Poaceae
<i>Saccharum spontaneum</i>	Kansi	Poaceae

Annexure VIII.4

List of trees, shrubs and tall grasses encountered in the command areas of
Ramganga Project.

Latin name	Local / Common name	Family
<i>Samanea saman</i>	Rain tree	Caesaliniaceae
<i>Sesbania grandiflora</i>	Agasta	Fabaceae
<i>Sterculia urens</i>	Kulu	Sterculiaceae
<i>Strebulus asper</i>		Moraceae
<i>Syzygium cumini</i>	Jamun	Myrtaceae
<i>Tamarindus indica</i>	Imli	Caesaliniaceae
<i>Tamarix dioica</i>	Tamarix	Tamaricaceae
<i>Tectona grandis</i>	Sagon / teak	Verbenaceae
<i>Terminalia arjuna</i>	Kahua / Arjun	Combretaceae
<i>Terminalia bellirica</i>	Bathera	Combretaceae
<i>Terminalia tomentosa</i>	Saja	Combretaceae
<i>Themeda arundinacea</i>	Themeda	Poaceae
<i>Thespesia populnea</i>	Portia tree	Malvaceae
<i>Thysanolaena maxima</i>	Tiger Grass	Poaceae
<i>Vitex negundo</i>	Nirgundi	Verbenaceae
<i>Waltheria indica</i>	Angur	Sterculiaceae
<i>Wrightia tinctoria</i>	Dudhi	Apocyanaceae
<i>Ziziphus marutiana</i>	Ber	Rhamnaceae
<i>Ziziphus nummularia</i>	Jharberi	Rhamnaceae
<i>Ziziphus rugosa</i>	Makor	Rhamnaceae
<i>Ziziphus xylopyra</i>	Ghont	Rhamnaceae

Annexure VIII.5

List of non woody annual and perennial species recorded during different seasons in the catchment, and command areas of the Ramganga Project. R = Rainy season, W= Winter and S= Summer.

Name of the Species	Family	Catchment areas	Command areas
<i>Abelmoschus moschatus</i>	Malvaceae	R&W	R&W
<i>Abelmoschus esculentus</i>	Malvaceae	R&W	R&W
<i>Abrus precatorius</i>	Fabaceae	R,W &S	R&W
<i>Abutilon crispum</i>	Malvaceae	R&W	
<i>Abutilon graveolens</i>	Malvaceae	R&W	R&W
<i>Acalypha indica</i>	Euphorbiaceae	R&W	R&W
<i>Acanthus ilicifolius</i>	Acanthaceae	R,W&S	R,W&S
<i>Achyranthes aspera</i>	Amaranthaceae	R&W	R&W
<i>Achyranthes bidentata</i>	Amaranthaceae	R&W	R&W
<i>Adiantum caudatum</i>	Adiantaceae	R&W	
<i>Adiantum incisum</i>	Adiantaceae	R&W	
<i>Adiantum lunulatum</i>	Adiantaceae	R&W	
<i>Aeluropus lagopoides</i>	Poaceae	R&W	
<i>Aerva javanica</i>	Amaranthaceae	R&W	
<i>Aerva lanata</i>	Amaranthaceae		R&W
<i>Aerva tomentosa</i>	Amaranthaceae		R&W
<i>Aeschynomene aspera</i>	Fabaceae		R&W
<i>Aeschynomene indica</i>	Fabaceae		R&W
<i>Agave americana</i>	Agavaceae	R,W &S	R,W &S
<i>Ageratum conyzoides</i>	Asteraceae	R&W	R&W
<i>Allmania longipedunculata</i>	Amaranthaceae	R&W	R&W
<i>Allmania nodiflora</i>	Amaranthaceae		R&W
<i>Alloteropsis cimicina</i>	Poaceae	R&W	R&W
<i>Alocasia decipiens</i>	Araceae	R&W	R&W
<i>Alternanthera pungens</i>	Amaranthaceae	R&W	R&W
<i>Alternanthera sessilis</i>	Amaranthaceae	R&W	R&W
<i>Alysicarpus monilifer</i>	Fabaceae	R&W	R&W
<i>Amaranthus caudatus</i>	Amaranthaceae		R&W
<i>Amaranthus hybridus</i>	Amaranthaceae		R&W
<i>Amaranthus spinosus</i>	Amaranthaceae	R&W	R&W
<i>Amaranthus viridis</i>	Amaranthaceae	R&W	R&W
<i>Ammania multiflora</i>	Lythraceae		R&W
<i>Ammannia baccifera</i>	Lythraceae		R&W

Annexure VIII.5

List of non woody annual and perennial species recorded during different seasons in the catchment, and command areas of the Ramganga Project. R = Rainy season, W= Winter and S= Summer.

Name of the Species	Family	Catchment areas	Command areas
<i>Amorphophallus bulbifer</i>	Araceae	R&W	R&W
<i>Andrographis echinoides</i>	Acanthaceae	R&W	R&W
<i>Andrographis paniculata</i>	Acanthaceae	R&W	R&W
<i>Anisomeles malabarica</i>	Lamiaceae	R,W &S	R,W &S
<i>Apluda mutica</i>	Poaceae	R&W	R&W
<i>Arachis hypogaea</i>	Fabaceae		R&W
<i>Argemone mexicana</i>	Papaveraceae	R&W	R&W
<i>Aristida adscensionis</i>	Poaceae	R&W	R&W
<i>Aristida funiculata</i>	Poaceae	R&W	R&W
<i>Aristida hystrix</i>	Poaceae	R&W	R&W
<i>Aristida setacea</i>	Poaceae	R&W	R&W
<i>Aristolochia bracteolata</i>	Aristolochiaceae	R&W	R&W
<i>Aristolochia indica</i>	Aristolochiaceae	R&W	R&W
<i>Arundinella setosa</i>	Poaceae	R,W &S	
<i>Arundinella purpurea</i>	Poaceae	R,W &S	
<i>Asclepias curassavica</i>	Asclepiadaceae	R,W &S	
<i>Asparagus racemosus</i>	Liliaceae	R,W &S	
<i>Asystasia gangetica</i>	Acanthaceae		R&W
<i>Authistiria ciliata</i>	Poaceae	R&W	
<i>Bacopa floribunda</i>	Scrophulariaceae		R&W
<i>Barleria prionitis</i>	Acanthaceae	R,W &S	R,W &S
<i>Bidens biternata</i>	Asteraceae		R&W
<i>Biophytum nervifolium</i>	Oxalidaceae		R&W
<i>Blepharis maderaspatensis</i>	Acanthaceae		R&W
<i>Blepharis repens</i>	Acanthaceae	R&W	R&W
<i>Blumea amplexans</i>	Asteraceae	W	W
<i>Blumea membranacea</i>	Asteraceae	W	W
<i>Blumea solidaginoides</i>	Asteraceae	W	W
<i>Boerhavia diffusa</i>	Nyctaginaceae		R&W
<i>Boerhavia erecta</i>	Nyctaginaceae	R&W	
<i>Borreria articularis</i>	Rubiaceae		R&W
<i>Borreria hispida</i>	Rubiaceae		R&W

Annexure VIII.5

List of non woody annual and perennial species recorded during different seasons in the catchment, and command areas of the Ramganga Project. R = Rainy season, W= Winter and S= Summer.

Name of the Species	Family	Catchment areas	Command areas
<i>Bothriochloa pertusa</i>	Poaceae	R&W	
<i>Brachiaria distachya</i>	Poaceae	R&W	
<i>Brachiaria ramosa</i>	Poaceae		R&W
<i>Brachiaria reptans</i>	Poaceae		R&W
<i>Brassica juncea</i>	Brassicaceae	R&W	R&W
<i>Brassica nigra</i>	Brassicaceae	R&W	R&W
<i>Breynia vitis-ideae</i>	Euphorbiaceae	R, W & S	R, W & S
<i>Bulbostylis barbata</i>	Cyperaceae	R&W	R&W
<i>Cajanus cajan</i>	Fabaceae		R&W
<i>Canavalia gladiata</i>	Fabaceae		R&W
<i>Canscora decurrens</i>	Gentianaceae	R&W	R&W
<i>Canscora diffusa</i>	Gentianaceae		R&W
<i>Capparis brevispina</i>	Capparidaceae	R, W & S	R, W & S
<i>Capparis zeylanica</i>	Capparidaceae	R, W & S	R, W & S
<i>Caralluma indica</i>	Aristolochiaceae	R, W & S	R, W & S
<i>Caralluma umbellata</i>	Aristolochiaceae	R, W & S	
<i>Cardiospermum halicacabum</i>	Sapindaceae		R&W
<i>Carissa carandas</i>	Apocyanaceae	R, W & S	R, W & S
<i>Carissa spinarum</i>	Apocyanaceae	R, W & S	R, W & S
<i>Cassia ontana</i>	Caesalpinaceae	R&W	R&W
<i>Cassia occidentalis</i>	Caesalpinaceae		R&W
<i>Cassia pumilo</i>	Caesalpinaceae	R, W & S	R, W & S
<i>Cassia sophera</i>	Caesalpinaceae		R&W
<i>Cassia tora</i>	Caesalpinaceae	R&W	R&W
<i>Cassytha filiformis</i>	Lauraceae	R, W & S	
<i>Catharanthus roseus</i>	Apocyanaceae		R&W
<i>Celosia argentea</i>	Amaranthaceae		R&W
<i>Cenchrus ciliaris</i>	Poaceae	R&W	R, W & S
<i>Centaurium centaurioides</i>	Gentianaceae		R&W
<i>Centranthera indica</i>	Scrophulariaceae		R&W
<i>Ceratophyllum demersum</i>	Ceratophyllaceae		R&W
<i>Cereus pterogonus</i>	Cactaceae	R, W & S	R, W & S
<i>Ceropegia bulbosa</i>	Aristolochiaceae	R&W	R&W

Annexure VIII.5

List of non woody annual and perennial species recorded during different seasons in the catchment, and command areas of the Ramganga Project. R = Rainy season, W= Winter and S= Summer.

Name of the Species	Family	Catchment areas	Command areas
<i>Ceropegia hirsuta</i>	Aristolochiaceae	R&W	R&W
<i>Cestrum nocturnum</i>	Solanaceae		R,W &S
<i>Chenopodium album</i>	Chenopodiaceae		R&W
<i>Chloris barbata</i>	Poaceae	R&W	R&W
<i>Chloris gayana</i>	Poaceae	R&W	R&W
<i>Chloris montana</i>	Poaceae	R&W	R&W
<i>Chloris virgata</i>	Poaceae	R&W	R&W
<i>Chlorophytum arundinaceum</i>	Liliaceae	R&W	
<i>Chlorophytum tuberosum</i>	Liliaceae	R&W	
<i>Chrozophora rottleri</i>	Euphorbiaceae		W &S
<i>Chrysopogon montanus</i>	Poaceae	R&W	
<i>Chrysopogon aciculatus</i>	Poaceae	R&W	
<i>Chrysopogon fulvus</i>	Poaceae	R&W	
<i>Chrysopogon verticillatus</i>	Poaceae	R&W	R&W
<i>Cissampelos pareira</i>	Menispermaceae	R,W &S	
<i>Cissus quadrangularis</i>	Vitaceae	R,W &S	R,W &S
<i>Citrullus colocynthis</i>	Cucurbitaceae		R&W
<i>Clematis gouriana</i>	Ranunculaceae	R&W	
<i>Cleome angustifolia</i>	Capparidaceae		R&W
<i>Cleome aspera</i>	Capparidaceae		R&W
<i>Cleome chelidonii</i>	Capparidaceae		R
<i>Cleome gynandra</i>	Capparidaceae		R
<i>Cleome monophylla</i>	Capparidaceae		R
<i>Cleome viscosa</i>	Capparidaceae	S	S&R
<i>Clitoria ternatea</i>	Fabaceae	R&W	R&W
<i>Coccinia indica</i>	Cucurbitaceae		W&S
<i>Coix lachrymal-jobi</i>	Poaceae	R&W	
<i>Coix gigantea</i>	Poaceae	R&W	
<i>Colocasia esculenta</i>	Araceae		R&W
<i>Commelina benghalensis</i>	Commalinaceae		R&W
<i>Commelina cristata</i>	Commalinaceae		R&W
<i>Commelina diffusa</i>	Commalinaceae		R&W

Annexure VIII.5

List of non woody annual and perennial species recorded during different seasons in the catchment, and command areas of the Ramganga Project. R = Rainy season, W= Winter and S= Summer.

Name of the Species	Family	Catchment areas	Command areas
<i>Commelina paludosa</i>	Commalinaceae		R&W
<i>Conyza cineraria</i>	Asteraceae	R&W	R&W
<i>Conyza stricta</i>	Asteraceae	R&W	R&W
<i>Corchorus aestuans</i>	Tiliaceae		R&W
<i>Corchorus capsularis</i>	Tiliaceae		R&W
<i>Crinum asiaticum</i>	Amaryllidaceae	R&W	R&W
<i>Crinum defixum</i>	Amaryllidaceae	R&W	R&W
<i>Crinum latifolium</i>	Amaryllidaceae	R&W	R&W
<i>Crossandra infundibuliformis</i>	Acanthaceae		R&W
<i>Crotalaria calycina</i>	Fabaceae	R&W	
<i>Crotalaria ferruginea</i>	Fabaceae	R&W	
<i>Crotalaria hirsuta</i>	Fabaceae		R&W
<i>Crotalaria juncea</i>	Fabaceae		R&W
<i>Crotalaria linifolia</i>	Fabaceae		R&W
<i>Crotalaria medicaginea</i>	Fabaceae	R&W	R&W
<i>Crotalaria prostata</i>	Fabaceae		R&W
<i>Crotalaria ramosissima</i>	Fabaceae	R&W	
<i>Crotalaria verrucosa</i>	Fabaceae	R&W	R&W
<i>Cryptolepis grandiflora</i>	Periplocaceae	R,W &S	
<i>Cryptolepis sinensis</i>	Periplocaceae	R,W &S	
<i>Cucumis callosus</i>	Cucurbitaceae		R&W
<i>Cucumis melo</i>	Cucurbitaceae		R&W
<i>Cucumis sativus</i>	Cucurbitaceae		R&W
<i>Curcuma longa</i>	Zingiberaceae		R&W
<i>Cymbopogon citratus</i>	Poaceae	R&W	R&W
<i>Cymbopogon coloratus</i>	Poaceae	R&W	R&W
<i>Cymbopogon flexuosus</i>	Poaceae	R&W	R&W
<i>Cymbopogon martinii</i>	Poaceae	R&W	R&W
<i>Cymbopogon nardus</i>	Poaceae	R&W	R&W
<i>Cynodon barberi</i>	Poaceae	R&W	R&W
<i>Cynodon dactylon</i>	Poaceae	R&W	R&W
<i>Cyperus brevifolius</i>	Cyperaceae	R&W	R&W

Annexure VIII.5

List of non woody annual and perennial species recorded during different seasons in the catchment, and command areas of the Ramganga Project. R = Rainy season, W= Winter and S= Summer.

Name of the Species	Family	Catchment areas	Command areas
<i>Cyperus compressus</i>	Cyperaceae	R&W	R&W
<i>Cyperus diffusus</i>	Cyperaceae		R&W
<i>Cyperus esculentus</i>	Cyperaceae		R&W
<i>Cyperus iria</i>	Cyperaceae		R&W
<i>Cyperus rotundus</i>	Cyperaceae	R&W	R&W
<i>Cyperus sanguinolentus</i>	Cyperaceae		R&W
<i>Cyperus squarrosus</i>	Cyperaceae		R&W
<i>Cyperus triceps</i>	Cyperaceae		R&W
<i>Dactyloctenium aegyptium</i>	Poaceae		R&W
<i>Datura innoxia</i>	Solanaceae		R&W
<i>Datura metel</i>	Solanaceae		R&W
<i>Datura stramonium</i>	Solanaceae		R&W
<i>Desmanthus trifoliata</i>	Fabaceae	R&W	
<i>Desmodium gangeticum</i>	Fabaceae	R&W	R&W
<i>Desmodium heterocarpon</i>	Fabaceae	R&W	
<i>Desmodium triangulare</i>	Fabaceae	R&W	R&W
<i>Desmodium triflorum</i>	Fabaceae	R&W	R&W
<i>Desmodium triquetrum</i>	Fabaceae	R&W	R&W
<i>Desmostacya bipinnata</i>	Poaceae	R&W	
<i>Dichanthium annulatum</i>	Poaceae	R&W	R&W
<i>Dichanthium aristatum</i>	Poaceae	R&W	R&W
<i>Dichanthium caricosum</i>	Poaceae	R&W	
<i>Digera arvensis</i>	Amaranthaceae		R&W
<i>Digera muricata</i>	Amaranthaceae		R&W
<i>Digitaria ciliaris</i>	Poaceae	R&W	R&W
<i>Digitaria longiflora</i>	Poaceae	R&W	R&W
<i>Digitaria sanguinalis</i>	Poaceae	R&W	R&W
<i>Dinebra retroflexa</i>	Poaceae		R&W
<i>Dioscorea anguina</i>	Dioscoriaceae	R,W &S	
<i>Dioscorea bulbifera</i>	Dioscoriaceae	R,W &S	
<i>Dioscorea glabra</i>	Dioscoriaceae	R,W &S	
<i>Dioscorea hispida</i>	Dioscoriaceae	R,W &S	R,W &S

Annexure VIII.5

List of non woody annual and perennial species recorded during different seasons in the catchment, and command areas of the Ramganga Project. R = Rainy season, W= Winter and S= Summer.

Name of the Species	Family	Catchment areas	Command areas
<i>Dioscorea oppositifolia</i>	Dioscoriaceae	R,W &S	
<i>Dioscorea pentaphylla</i>	Dioscoriaceae	R,W &S	
<i>Dioscorea tomentosa</i>	Dioscoriaceae	R,W &S	
<i>Dolichos trilobus</i>	Fabaceae		R&W
<i>Echinochloa colona</i>	Poaceae	R&W	R&W
<i>Echinochloa crusgalli</i>	Poaceae		R&W
<i>Echinops echinata</i>	Asteraceae		R&W
<i>Eclipta prostrata</i>	Asteraceae		R&W
<i>Eleusine coracana</i>	Poaceae		R&W
<i>Eleusine indica</i>	Poaceae		R&W
<i>Emilia sonchifolia</i>	Asteraceae	W	W
<i>Enteropogon monostachyos</i>	Poaceae	R&W	
<i>Eragrostis aspera</i>	Poaceae		R&W
<i>Eragrostis ciliata</i>	Poaceae	R&W	R&W
<i>Eragrostis coarctata</i>	Poaceae	R&W	R&W
<i>Eragrostis diarrhena</i>	Poaceae	R&W	
<i>Eragrostis maderaspatana</i>	Poaceae	R&W	R&W
<i>Eragrostis pilosa</i>	Poaceae	R&W	R&W
<i>Eragrostis tenella</i>	Poaceae	R&W	R&W
<i>Eragrostis viscosa</i>	Poaceae	R&W	R&W
<i>Eriochloa procera</i>	Poaceae	R&W	R&W
<i>Eulaliopsis binata</i>	Poaceae	R&W	
<i>Euphorbia chamaesyce</i>	Euphorbiaceae		R&W
<i>Euphorbia dracunculoides</i>	Euphorbiaceae	R,W &S	
<i>Euphorbia heterophylla</i>	Euphorbiaceae	R&W	
<i>Euphorbia hirta</i>	Euphorbiaceae	R&W	R&W
<i>Euphorbia indica</i>	Euphorbiaceae	R&W	R&W
<i>Evolvulus alsinoides</i>	Convolvulaceae	R&W	R&W
<i>Evolvulus nummularis</i>	Convolvulaceae	R&W	R&W
<i>Exacum pedunculatum</i>	Gentianaceae		R&W
<i>Exacum tetragonum</i>	Gentianaceae	R&W	
<i>Fimbristylis dichotoma</i>	Cyperaceae		R&W
<i>Fimbristylis miliacea</i>	Cyperaceae		R&W

Annexure VIII.5

List of non woody annual and perennial species recorded during different seasons in the catchment, and command areas of the Ramganga Project. R = Rainy season, W= Winter and S= Summer.

Name of the Species	Family	Catchment areas	Command areas
<i>Fimbristylis ovata</i>	Cyperaceae		R&W
<i>Fimbristylis umbellata</i>	Cyperaceae		R&W
<i>Flacourtia indica</i>	Flacourtiaceae	R,W &S	
<i>Fleurya interrupta</i>	Urticaceae	R&W	
<i>Galactia longifolia</i>	Fabaceae		R&W
<i>Galactia tenuiflora</i>	Fabaceae	R&W	R&W
<i>Galactia villosa</i>	Fabaceae	R&W	R&W
<i>Gentelbua urens</i>	Acanthaceae	R&W	R&W
<i>Glinus lotoides</i>	Aizoaceae	R&W	R&W
<i>Glinus oppositifolius</i>	Aizoaceae	R&W	R&W
<i>Gloriosa superba</i>	Liliaceae	R&W	
<i>Glycine wightii</i>	Fabaceae		R&W
<i>Glycosmis mauritiana</i>	Rutaceae		R&W
<i>Glycosmis pentaphylla</i>	Rutaceae	R,W &S	
<i>Gnaphalium polycaulon</i>	Asteraceae		R&W
<i>Gomphrena globosa</i>	Amaranthaceae		R&W
<i>Hedyotis affinis</i>	Rubiaceae	R&W	R&W
<i>Hedyotis auricularia</i>	Rubiaceae	R&W	
<i>Hedyotis corymbosa</i>	Rubiaceae		R&W
<i>Hedyotis diffusa</i>	Rubiaceae		R&W
<i>Hedyotis herbacea</i>	Rubiaceae		R&W
<i>Hedyotis racemosa</i>	Rubiaceae	R&W	R&W
<i>Hedyotis umbellate</i>	Rubiaceae	R&W	R&W
<i>Helicteres isora</i>	Sterculiaceae	R&W	R&W
<i>Hemidesmus indicus</i>	Periplocaceae	R,W &S	R,W &S
<i>Hemigraphis hirta</i>	Acanthaceae	R&W	
<i>Hemigraphis latebrosa</i>	Acanthaceae	R&W	
<i>Hemigraphis venso</i>	Acanthaceae		R&W
<i>Heteropogon contortus</i>	Poaceae	R&W	R&W
<i>Heylandia latebrosa</i>	Fabaceae		R&W
<i>Hibiscus lobatus</i>	Malvaceae	R,W &S	R,W &S
<i>Hisbiscus panduriiformis</i>	Malvaceae	R,W &S	R,W &S

Annexure VIII.5

List of non woody annual and perennial species recorded during different seasons in the catchment, and command areas of the Ramganga Project. R = Rainy season, W= Winter and S= Summer.

Name of the Species	Family	Catchment areas	Command areas
<i>Holarrhena pubescens</i>	Apocyanaceae	R,W &S	
<i>Hybanthus enneaspermus</i>	Violaceae		R&W
<i>Hygrophila auriculata</i>	Acanthaceae		R&W
<i>Hygrophila heinei</i>	Acanthaceae		R&W
<i>Hygrophila salicifolia</i>	Acanthaceae		R&W
<i>Hyptis suaveolens</i>	Lamiaceae	R&W	R&W
<i>Imperata cylindrica</i>	Poaceae	R&W	R&W
<i>Indigofera trifoliata</i>	Fabaceae		R&W
<i>Indigofera astragalina</i>	Fabaceae	R&W	
<i>Indigofera ennaephylla</i>	Fabaceae	R&W	R&W
<i>Indigofera linifolia</i>	Fabaceae	R&W	R&W
<i>Indigofera linnaei</i>	Fabaceae	R&W	R&W
<i>Indigofera linni</i>	Fabaceae		R&W
<i>Indigofera oblongifolia</i>	Fabaceae	R&W	
<i>Indigofera tinctoria</i>	Fabaceae	R&W	R&W
<i>Indigofera trita</i>	Fabaceae	R&W	R&W
<i>Indigofera wightii</i>	Fabaceae	R&W	R&W
<i>Iphigenia indica</i>	Liliaceae	R&W	
<i>Ipomoea aquatica</i>	Convolvulaceae	R,W &S	R,W &S
<i>Ipomoea carnea</i>	Convolvulaceae	R,W &S	R,W &S
<i>Ipomoea hederifolia</i>	Convolvulaceae	R,W &S	R,W &S
<i>Ipomoea obscura</i>	Convolvulaceae	R,W &S	R,W &S
<i>Ipomoea pes-caprae</i>	Convolvulaceae	R,W &S	R,W &S
<i>Ipomoea sepiaria</i>	Convolvulaceae	R,W &S	R,W &S
<i>Ipomoea turbinata</i>	Convolvulaceae	R,W &S	R,W &S
<i>Ischaemum pilosum</i>	Poaceae	R&W	
<i>Ischaemum ciliare</i>	Poaceae	R&W	R&W
<i>Ischaemum indicum</i>	Poaceae	R&W	R&W
<i>Ischaemum laxum</i>	Poaceae	R&W	R&W
<i>Iseilema laxum</i>	Poaceae		R&W
<i>Iseilema prostratum</i>	Poaceae		R&W
<i>Jacquemontia paniculata</i>	Convolvulaceae		R&W
<i>Jasminum angustifolium</i>	Oleaceae	R,W &S	R,W &S

Annexure VIII.5

List of non woody annual and perennial species recorded during different seasons in the catchment, and command areas of the Ramganga Project. R = Rainy season, W= Winter and S= Summer.

Name of the Species	Family	Catchment areas	Command areas
<i>Jasminum arborescens</i>	Oleaceae	R,W &S	
<i>Jasminum brevilobum</i>	Oleaceae	R,W &S	R,W &S
<i>Justicia adhatoda</i>	Acanthaceae	R&W	R&W
<i>Justicia diffusa</i>	Acanthaceae		R&W
<i>Justicia glabra</i>	Acanthaceae		R&W
<i>Justicia procumbens</i>	Acanthaceae		R&W
<i>Justicia trinervia</i>	Acanthaceae	R&W	R&W
<i>Justicia vahlii</i>	Acanthaceae	R&W	
<i>Kalanchoe laciniata</i>	Crassulaceae	R,W &S	
<i>Kalanchoe pinnata</i>	Crassulaceae	R,W &S	
<i>Kyllinga nemorales</i>	Cyperaceae	R&W	R&W
<i>Lablab purpureus</i>	Fabaceae		R&W
<i>Lemna gibba</i>	Lemnaceae		R&W
<i>Lemna perpusilla</i>	Lemnaceae		R&W
<i>Lepidagathis cristata</i>	Acanthaceae	R&W	
<i>Lepidagathis cuspidata</i>	Acanthaceae	R&W	
<i>Leucas biflora</i>	Lamiaceae		R&W
<i>Leucas indica</i>	Lamiaceae		R&W
<i>Leucas lamifolia</i>	Lamiaceae		R&W
<i>Lindernia anagallis</i>	Scrophulariaceae		R&W
<i>Lindernia anagallis</i>	Scrophulariaceae		R&W
<i>Lindernia antipoda</i>	Scrophulariaceae		R&W
<i>Lindernia parviflora</i>	Scrophulariaceae	R&W	R&W
<i>Lindernia procumbens</i>	Scrophulariaceae	R&W	R&W
<i>Lindernia viscosa</i>	Scrophulariaceae		R&W
<i>Lippia javanica</i>	Verbenaceae		R&W
<i>Ludwigia octovalvis</i>	Onagraceae	R&W	R&W
<i>Ludwigia perennis</i>	Onagraceae		R&W
<i>Ludwigia prostrata</i>	Onagraceae		R&W
<i>Luffa acutangula</i>	Cucurbitaceae		R&W
<i>Luffa cylindrica</i>	Cucurbitaceae		R&W
<i>Lycopersicon esculentum</i>	Solanaceae		R&W

Annexure VIII.5

List of non woody annual and perennial species recorded during different seasons in the catchment, and command areas of the Ramganga Project. R = Rainy season, W= Winter and S= Summer.

Name of the Species	Family	Catchment areas	Command areas
<i>Malachra capitata</i>	Malvaceae	R&W	R&W
<i>Malvastrum coromandelianum</i>	Malvaceae	R&W	R&W
<i>Marsilea quadrifolia</i>	Marsileaceae	R&W	R&W
<i>Mazus pumilus</i>	Scrophulariaceae		R&W
<i>Melochia corchorifolia</i>	Sterculiaceae		R&W
<i>Merremia gangetica</i>	Convolvulaceae		R&W
<i>Merremia tridentata</i>	Convolvulaceae		R&W
<i>Millettia auriculata</i>	Fabaceae	R&W	
<i>Millettia recemosa</i>	Fabaceae	R&W	
<i>Mollugo cerviana</i>	Aizoaceae		R&W
<i>Mollugo disticha</i>	Aizoaceae	R&W	R&W
<i>Mollugo nudicaulis</i>	Aizoaceae		R&W
<i>Mollugo pentaphylla</i>	Aizoaceae		R&W
<i>Momordica charantia</i>	Cucurbitaceae		R&W
<i>Momordica dioica</i>	Cucurbitaceae		R&W
<i>Mucuna pruriens</i>	Fabaceae	R&W	
<i>Mukia maderashpatana</i>	Cucurbitaceae		R&W
<i>Murdannia nudiflora</i>	Commelinaceae		R&W
<i>Nelumbo nucifera</i>	Nelumbonaceae		R&W
<i>Neodistemon indicum</i>	Urticaceae	R&W	
<i>Neptunia triquetra</i>	Mimosaceae	R&W	R&W
<i>Nicotiana tabacum</i>	Solanaceae		W
<i>Nymphaea nauchali</i>	Nymphaeaceae		R&W
<i>Nymphaea sellata</i>	Nymphaeaceae		R&W
<i>Ocimum americanum</i>	Lamiaceae		R&W
<i>Ocimum basilicum</i>	Lamiaceae		R&W
<i>Ocimum canum</i>	Lamiaceae	R&W	R&W
<i>Ocimum sanctum</i>	Lamiaceae		R&W
<i>Opuntia stricta</i>	Cactaceae	R, W & S	R, W & S
<i>Opuntia elatior</i>	Cactaceae	R, W & S	R, W & S
<i>Orobanche cernua</i>	Orobanchaceae		W
<i>Oryza sativa</i>	Poaceae		R&W

Annexure VIII.5

List of non woody annual and perennial species recorded during different seasons in the catchment, and command areas of the Ramganga Project. R = Rainy season, W= Winter and S= Summer.

Name of the Species	Family	Catchment areas	Command areas
<i>Ottelia alismoides</i>	Hydrocharitaceae		R&W
<i>Oxalis corniculata</i>	Oxalidaceae	R&W	R&W
<i>Panicum brevifolium</i>	Poaceae	R&W	R&W
<i>Panicum maximum</i>	Poaceae	R&W	R&W
<i>Panicum psilopodium</i>	Poaceae	R&W	R&W
<i>Panicum repens</i>	Poaceae	R&W	R&W
<i>Parthenium hysterophorus</i>	Asteraceae	R&W	R&W
<i>Paspalidium flavidum</i>	Poaceae	R&W	R&W
<i>Passiflora foetida</i>	Passifloraceae	R&W	
<i>Pedaliium muricatum</i>	Pedaliaceae	R&W	R&W
<i>Pedilanthus tithymaloides</i>	Euphorbiaceae		R,W &S
<i>Pennisetum pedicellatum</i>	Poaceae	R&W	R&W
<i>Pennisetum purpureum</i>	Poaceae	R&W	R&W
<i>Pennisetum typhoides</i>	Poaceae		R&W
<i>Peristrophe bicalyculata</i>	Acanthaceae	R&W	R&W
<i>Peristrophe paniculata</i>	Acanthaceae	R&W	R&W
<i>Perotis indica</i>	Poaceae	R&W	R&W
<i>Perotis latifolia</i>	Poaceae	R&W	
<i>Phaseolus aconitifolius</i>	Fabaceae		R&W
<i>Phaseolus mungo</i>	Fabaceae		R&W
<i>Phaseolus radiatus</i>	Fabaceae		R&W
<i>Phaseolus trilobus</i>	Fabaceae		R&W
<i>Phragmites karka</i>	Poaceae	R&W	R&W
<i>Phyla nodiflora</i>	Verbenaceae		R&W
<i>Phyllanthus amarus</i>	Euphorbiaceae		R&W
<i>Phyllanthus debilis</i>	Euphorbiaceae	R&W	
<i>Phyllanthus maderaspatensis</i>	Euphorbiaceae		R&W
<i>Phyllanthus virgatus</i>	Euphorbiaceae	R&W	R&W
<i>Physalis peruviana</i>	Solanaceae		R&W
<i>Plectranthus barbatus</i>	Lamiaceae	R,W &S	
<i>Plectranthus japonicus</i>	Lamiaceae	R,W &S	
<i>Polycarpaea aurea</i>	Caryophyllaceae		R&W

Annexure VIII.5

List of non woody annual and perennial species recorded during different seasons in the catchment, and command areas of the Ramganga Project. R = Rainy season, W= Winter and S= Summer.

Name of the Species	Family	Catchment areas	Command areas
<i>Polycarpaea corymbosa</i>	Caryophyllaceae	R&W	R&W
<i>Polycarpon prostratum</i>	Caryophyllaceae		R&W
<i>Polygala arvensis</i>	Polygalaceae	R&W	R&W
<i>Polygala chinensis</i>	Polygalaceae		R&W
<i>Polygala elongata</i>	Polygalaceae		R&W
<i>Polygala erioptera</i>	Polygalaceae		R&W
<i>Polygala furcata</i>	Polygalaceae		R&W
<i>Polygala persicariifolia</i>	Polygalaceae	R&W	
<i>Portulaca oleracea</i>	Portulacaceae		R&W
<i>Portulaca pilosa</i>	Portulacaceae		R&W
<i>Portulaca quadrifida</i>	Portulacaceae	R&W	
<i>Pouzolzia bennettiana</i>	Urticaceae	R&W	
<i>Psoralea corylifolia</i>	Fabaceae	R&W	R&W
<i>Rhynchosia hirta</i>	Fabaceae		R&W
<i>Rhynchosia minima</i>	Fabaceae		R&W
<i>Rhynchosia rothii</i>	Fabaceae	R&W	
<i>Rhynchosia suaveolens</i>	Fabaceae	R&W	R&W
<i>Rhynchosia viscosa</i>	Fabaceae	R&W	R&W
<i>Rostellularia diffusa</i>	Acanthaceae	R&W	R&W
<i>Rostellularia procumbens</i>	Acanthaceae	R&W	R&W
<i>Rostellularia prostrata</i>	Acanthaceae	R&W	R&W
<i>Rostellularia simplex</i>	Acanthaceae	R&W	R&W
<i>Rostellularia vahlii</i>	Acanthaceae	R&W	
<i>Rothia indica</i>	Fabaceae		R&W
<i>Ruellia tuberosa</i>	Acanthaceae	R&W	R&W
<i>Rungia parviflora</i>	Acanthaceae	R&W	R&W
<i>Rungia pectinata</i>	Acanthaceae	R&W	R&W
<i>Rungia repens</i>	Acanthaceae	R&W	R&W
<i>Saccharum munja</i>	Poaceae	R&W	
<i>Saccharum officinarum</i>	Poaceae	R,W &S	R,W &S
<i>Saccharum spontaneum</i>	Poaceae	R,W &S	R,W &S
<i>Sagittaria guayanensis</i>	Alismataceae	R&W	R&W
<i>Sagittaria sagittifolia</i>	Alismataceae	R&W	R&W

Annexure VIII.5

List of non woody annual and perennial species recorded during different seasons in the catchment, and command areas of the Ramganga Project. R = Rainy season, W= Winter and S= Summer.

Name of the Species	Family	Catchment areas	Command areas
<i>Salvia coccinea</i>	Lamiaceae		R&W
<i>Sansevieria roxburghiana</i>	Agavaceae	R,W &S	R,W &S
<i>Schima sulcatum</i>	Poaceae	R&W	
<i>Schima nervosum</i>	Poaceae	R&W	
<i>Schoenoplectus articulatus</i>	Cyperaceae		R&W
<i>Scilla hyacinthine</i>	Liliaceae		R&W
<i>Scoparia dulcis</i>	Scrophulariaceae		R&W
<i>Scutellaria rivularis</i>	Lamiaceae		R&W
<i>Sesamum indicum</i>	Pedaliaceae		R&W
<i>Sesamum prostratum</i>	Pedaliaceae		R&W
<i>Sesbania aculeata</i>	Fabaceae		R&W
<i>Sesbania bispinosa</i>	Fabaceae		R&W
<i>Sesbania procumbens</i>	Fabaceae		R&W
<i>Setaria glauca</i>	Poaceae		R&W
<i>Setaria intermedia</i>	Poaceae	R&W	
<i>Setaria italica</i>	Poaceae		R&W
<i>Sida acuta</i>	Malvaceae	R&W	R&W
<i>Sida cordata</i>	Malvaceae	R&W	R&W
<i>Sida rhombifolia</i>	Malvaceae	R&W	
<i>Sida spinosa</i>	Malvaceae	R&W	
<i>Smilax zelanica</i>	Smilacaceae	R,W &S	
<i>Solanum melongena</i>	Solanaceae		R&W
<i>Solanum nigrum</i>	Solanaceae		R&W
<i>Solanum tuberosum</i>	Solanaceae		R&W
<i>Solanum xanthocarpum</i>	Solanaceae		R&W
<i>Sopubia delphinifolia</i>	Scrophulariaceae		R&W
<i>Sopubia trifida</i>	Scrophulariaceae		R&W
<i>Sorghum halepense</i>	Poaceae		R&W
<i>Sphaeranthus indicus</i>	Asteraceae		R&W
<i>Sporobolus coromandelianus</i>	Poaceae	R&W	R&W
<i>Sporobolus indicus</i>	Poaceae	R&W	R&W
<i>Sporobolus maderaspatanus</i>	Poaceae	R&W	R&W

Annexure VIII.5

List of non woody annual and perennial species recorded during different seasons in the catchment, and command areas of the Ramganga Project. R = Rainy season, W= Winter and S= Summer.

Name of the Species	Family	Catchment areas	Command areas
<i>Sporobolus tremulus</i>	Poaceae	R&W	R&W
<i>Stemodia viscosa</i>	Scrophulariaceae		R&W
<i>Striga angustifolia</i>	Scrophulariaceae		R&W
<i>Striga asiatica</i>	Scrophulariaceae		R&W
<i>Striga densiflora</i>	Scrophulariaceae	R&W	
<i>Stylosanthes fruticosa</i>	Fabaceae	R&W	R&W
<i>Tehrosia purpurea</i>	Fabaceae	R&W	R&W
<i>Tephrosia procumbens</i>	Fabaceae	R&W	R&W
<i>Tephrosia pulcherrima</i>	Fabaceae	R&W	
<i>Tephrosia pumila</i>	Fabaceae	R&W	
<i>Tephrosia tinctoria</i>	Fabaceae	R&W	
<i>Tephrosia villosa</i>	Fabaceae	R&W	R&W
<i>Themeda triandra</i>	Poaceae	R&W	
<i>Themeda quadrivalis</i>	Poaceae	R,W & S	
<i>Themeda arundinacea</i>	Poaceae	R,W & S	R,W & S
<i>Thespesia lampas</i>	Malvaceae	R,W & S	
<i>Thysanolaena maxima</i>	Poaceae	R,W & S	
<i>Tiliacora acuminata</i>	Menispermaceae	R,W & S	
<i>Tinospora cordifolia</i>	Menispermaceae	R,W & S	
<i>Tinospora sinensis</i>	Menispermaceae	R,W & S	
<i>Tragia involucrata</i>	Euphorbiaceae	R&W	R&W
<i>Tragus roxburghii</i>	Poaceae	R&W	R&W
<i>Trianthema decandra</i>	Aizoaceae		R&W
<i>Trianthema portulacastrum</i>	Aizoaceae		R&W
<i>Trianthema triquetra</i>	Aizoaceae		R&W
<i>Tribulus terrestris</i>	Zygophyllaceae	R&W	R&W
<i>Trichosanthes cordata</i>	Cucurbitaceae		R&W
<i>Trichosanthes cucumerina</i>	Cucurbitaceae		R&W
<i>Trichosanthes tricuspidata</i>	Cucurbitaceae		R&W
<i>Tridax procumbens</i>	Asteraceae	S,R&W	S,R&W
<i>Triumfetta pentandra</i>	Tiliaceae	R&W	R&W
<i>Triumfetta pilosa</i>	Tiliaceae	R&W	R&W
<i>Triumfetta rhomboidea</i>	Tiliaceae		W&S

Annexure VIII.5

List of non woody annual and perennial species recorded during different seasons in the catchment, and command areas of the Ramganga Project. R = Rainy season, W= Winter and S= Summer.

Name of the Species	Family	Catchment areas	Command areas
<i>Tylophora indica</i>	Aristolochiaceae	R,W &S	
<i>Tylophora marantha</i>	Aristolochiaceae	R,W &S	
<i>Typha angustata</i>	Typhaceae	R,W &S	R,W &S
<i>Urginea congesta</i>	Liliaceae		R&W
<i>Urginea indica</i>	Liliaceae		R&W
<i>Vernonia albicans</i>	Asteraceae		R&W
<i>Vernonia cinerea</i>	Asteraceae	R&W	R&W
<i>Vetiveria zizanoides</i>	Poaceae	R,W &S	
<i>Vigna aconitifolia</i>	Fabaceae		R&W
<i>Vigna mungo</i>	Fabaceae		R&W
<i>Vigna radiata</i>	Fabaceae		R&W
<i>Vigna trilobata</i>	Fabaceae		R&W
<i>Viscum articulatum</i>	Viscaceae	R,W &S	
<i>Viscum orientale</i>	Viscaceae	R,W &S	
<i>Vitis heyneana</i>	Vitaceae	R,W &S	
<i>Waltheria indica</i>	Sterculiaceae	R&W	R&W
<i>Withania somnifera</i>	Solanaceae	R&W	R&W
<i>Wolffia globosa</i>	Lemnaceae		R&W
<i>Wolffia microscopica</i>	Lemnaceae		R&W
<i>Woodfordia fruticosa</i>	Lythraceae	R,W &S	
<i>Xanthium strumarium</i>	Asteraceae	R&W	R&W
<i>Zingiber officinalis</i>	Zingiberaceae		R&W

Annexure VIII.6

List of herbal products used in Ayurvedic and Unani Medicines and their plant sources. Most of these medicinal plants, tubers and herbs are collected from the catchment and command areas of the Ramganga Project but not commercialized.

Local name of medicinal product	Plant from which obtained
Aak	<i>Calotropis gigantea</i>
Aam ki guthli	<i>Mangifera indica</i>
Aama haldi	<i>Curcuma aromatica</i>
Adrak	<i>Zinziber officinale</i>
Adusa / Vasaca	<i>Adhatoda vasica</i>
Agast ke pushpa	<i>Sesbania grandiflora</i>
Agnimanth /Arni	<i>Clerodendron phlomidis</i>
Ajmod	<i>Carum roxburghianum</i>
Ajvayan Khragsahni	<i>Hyoscyamus albus</i>
Ajwaine chhal	<i>Trachyspermum amni</i>
Akarkara	<i>Spilanthes acmella</i>
Amaltas	<i>Cassia fistula</i>
Amarvel / Vilayati	<i>Cuscuta chinensis</i>
Aml Bent	<i>Garcinia pedunculata</i>
Ananta mool	<i>Hemidesmus indicus</i>
Anardana	<i>Punica granatum</i>
Anjir Jard	<i>Ficus carica</i>
Anwla	<i>Phyllanthus emblica</i>
Aphim	<i>Papaver somnifer</i>
Arhar ki jad	<i>Cajanus indicus</i>
Arjun twaku	<i>Terminalia arjuna</i>
Arloo	<i>Oroxylon indicum</i>
Ashok chhal	<i>Saraca indica (=S.assoc)</i>
Asti Samhahi	<i>Vitis quadrangularis</i>
Aswagandha	<i>Withania somnifera</i>
Atibala	<i>Abutilon indicum</i>
Atil / ativasa	<i>Aconitium heterophyllum</i>
Bach	<i>Acorus calamus</i>
Bahera / baheda	<i>Terminalia bellirica</i>
Bansh lochan	<i>Bambusa arundinacea</i>
Bartang	<i>Plantago major</i>
Behman safed	<i>Centaurea behen</i>
Behman surkh	<i>Salvia haematoides</i>
Bel (giri & mool)	<i>Aegle marmelos</i>
Bhang	<i>Cannabis indica</i>
Bharangi	<i>Clerodendron serratum</i>
Bhilava	<i>Semecarpus anacardium</i>
Chakbad beej	<i>Cassia tora</i>
Chameli pay	<i>Jasminum arborescens</i>
Chirayta	<i>Swertia chirata</i>
Chitrak	<i>Plumbago zeylanica</i>



List of herbal products used in Ayurvedic and Unani Medicines and their plant sources. Most of these medicinal plants, tubers and herbs are collected from the catchment and command areas of the Ramganga Project but not commercialized.

Local name of medicinal product	Plant from which obtained
Dalchini	<i>Cinnamomum zeylanicum</i>
Danti mool	<i>Baliospermum montanum</i>
Daru haridra	<i>Barbaris aristata</i>
Dhania	<i>Coriandrum sativum</i>
Dhantur	<i>Datura alba</i>
Dhawai ke phool	<i>Woodfordia floribunda</i>
Draksha	<i>Vitis vinifera</i>
Elua	<i>Aloe barbadensis</i>
Errand mool / erandi	<i>Ricinus communis</i>
Ghoomar	<i>Euphorbia neriifolia</i>
Giloya	<i>Tinospora cordifolia</i>
Gokhru	<i>Tribulus terrestris</i>
Gond babul	<i>Acacia arabica</i>
Gond Chinia	<i>Butea monosperma</i>
Gondani	<i>Cordia rotnii</i>
Gugal	<i>Commiphora mukul</i>
Gule banpasha	<i>Viola odorata</i>
Gule gavjawan	<i>Coccinia glauca</i>
Gulmundi	<i>Spaeranthus indicus</i>
Haldi	<i>Curcuma longa</i>
Harad vakkal	<i>Terminalia chebula</i>
Harenuka	<i>Vitex negundo</i>
Harsinghar	<i>Nyctanthes arbor-tristis</i>
Heera bol	<i>Commiphora myrrha</i>
Hingupatri	<i>Gardenia gummiifera</i>
Ilayachi badi	<i>Amonum subulatum</i>
Ilayachi chhoti	<i>Elettaria cardamomum</i>
Imli	<i>Tamarindus indicus</i>
Inbrayab / Dudhi	<i>Holarrhena antidysenterica</i>
Indrayan ki jad	<i>Citrullus colocynthis</i>
Irimend ki chhal	<i>Acacia farnesiana</i>
Irwa	<i>Cynodon dactylon</i>
Jalafa musallam	<i>Convolvulus jalapa</i>
Jamun guthli	<i>Syzygium cumini</i>
Jaravand	<i>Aristolochia longa</i>
Jayphal	<i>Croton tiglicum</i>
Jeera shweth	<i>Cuminum cyminum</i>
Jeera Siyah	<i>Carum carvi</i>
Kababchini	<i>Piper cubeca</i>
Kachnar chhal	<i>Bauhinia variegata</i>
Kachur	<i>Curcuma zedoria</i>
Kakdasinghi	<i>Rhus succedanea</i>
Kali mirch	<i>Piper nigrum</i>



Annexure VIII.6

List of herbal products used in Ayurvedic and Unani Medicines and their plant sources. Most of these medicinal plants, tubers and herbs are collected from the catchment and command areas of the Ramganga Project but not commercialized.

Local name of medicinal product	Plant from which obtained
Kamal keshar	<i>Nelumbium speciosum</i>
Kanermool(Rakta)	<i>Nerium odorata</i>
Kapikachhu	<i>Mucuna pruriens</i>
Karanj	<i>Pongamia pinnata</i>
Karanjava	<i>Caesalpinia bonducella</i>
Kateera	<i>Astragalus hartensis</i>
Kateri badi	<i>Solanum indicum</i>
Kateri choti	<i>Solanum surattense</i>
Kayphal	<i>Myrica nagi</i>
Keckhari	<i>Gloriosa superba</i>
Ketki	<i>Pandanus facicularis</i>
Khajoor	<i>Phoenix dactylifera</i>
Kharenti	<i>Sida cordifolia</i>
Khubbaji	<i>Malva sylvestris</i>
Khus	<i>Vetiveria zizanioides</i>
Kuchla	<i>Strychnos nux-vomica</i>
Kundur	<i>Boswellia floribunda</i>
Lahsun	<i>Allium sativum</i>
Lajjalu	<i>Biophytum sensitivum</i>
Laudhra	<i>Symplocos racemosa</i>
Madhvi	<i>Hyptage madulata</i>
Magja pista	<i>Pistacia vera</i>
Magja tikhm neem	<i>Azadirachta indica</i>
Mahua	<i>Madhuca indica</i>
Makckhutak	<i>Solanum dulcamara</i>
Mal Kkangi	<i>Celastrus paniculatus</i>
Manjith	<i>Rubia cordifolia</i>
Manju sabj	<i>Quercus infectoria</i>
Manyee	<i>Tamarix gallica</i>
Mochras	<i>Bombax malabaricum</i>
Mooli	<i>Raphanus sativus</i>
Moosli Kand	<i>Curculigo orchoides</i>
Moosli safed	<i>Asparagus adscendens</i>
Mugdaparni	<i>Phaseolus trilobus</i>
Mulaithi	<i>Glycirriza glabra</i>
Murva	<i>Bauhinia vahlii</i>
Nag Bala	<i>Sida veronicaefolia</i>
Nag Valli	<i>Piper betle</i>
Nagarmotha	<i>Cyperus scariosus</i>
Nagkesar	<i>Mesua ferea</i>
Neem ke chhal	<i>Azadirachta indica</i>
Netrawala	<i>Pavonia odorata</i>
Nilotpal	<i>Nelumbium speciosum</i>



List of herbal products used in Ayurvedic and Unani Medicines and their plant sources. Most of these medicinal plants, tubers and herbs are collected from the catchment and command areas of the Ramganga Project but not commercialized.

Local name of medicinal product	Plant from which obtained
Nishoth	<i>Operculina turpethum</i>
Ootgan	<i>Blepharis edulis</i>
Palas beej	<i>Butea frondosa</i>
Pappermint	<i>Mentha piperata</i>
Patel patra	<i>Trichosanthes dioica</i>
Patla	<i>Stereospermum suaveolens</i>
Piper mool	<i>Piper longum</i>
Pippali	<i>Piper longum</i>
Pit pada	<i>Fumaria parviflora</i>
Podina	<i>Mentha sativa</i>
Prishnparni	<i>Uraria picta</i>
Priyangu	<i>Callicarpa macrophylla</i>
Punarnava mool	<i>Boerhaavia diffusa</i>
Pushkar mool	<i>Imula racemosa</i>
Rai	<i>Brassica juncea</i>
Renuka	<i>Vitex agnus</i>
Revand chini	<i>Rheum officinale</i>
Rogne Kanta	<i>Linum usitatissimum</i>
Rogne mool	<i>Rose damascena</i>
Safed raal	<i>Shorea robusta</i>
Sagindha	<i>Rauvolfia serpentina</i>
Sahdevi	<i>Vernonia cineraria</i>
Sahjan	<i>Miringa pterigospermum</i>
Salab misri	<i>Orchis muscular</i>
Salab panja	<i>Orchis sp.</i>
Salone ki chhal	<i>Alstonia scholaris</i>
Sambhal	<i>Vitex negundo</i>
Sanay	<i>Cassia angustifolia</i>
Sarson(pili)	<i>Brassica campestris</i>
Saunph	<i>Phoeniculum vulgare</i>
Saunth	<i>Zinziber officinale</i>
Sewan / Khamar	<i>Gmelina arborea</i>
Shalparni	<i>Desmodium sp.</i>
Shatavari	<i>Asparagus racemosus</i>
Shital chini	<i>Piper cubaba</i>
Shwet kamal	<i>Nelumbium speciosum</i>
Shyonak	<i>Oroxylon indicus</i>
Sibbe muktari	<i>Aloe vera</i>
Singhara	<i>Trapa natans</i>
Siras ke chaal	<i>Albizia odoratissima</i>
Soa (Shatpushpa)	<i>Peucedanum graveolens</i>
Sugandhapala	<i>Pavonia odorata</i>
Supari	<i>Areca catechu</i>



Annexure VIII.6

List of herbal products used in Ayurvedic and Unani Medicines and their plant sources. Most of these medicinal plants, tubers and herbs are collected from the catchment and command areas of the Ramganga Project but not commercialized.

Local name of medicinal product	Plant from which obtained
Suranjan shiri	<i>Merendera persica</i>
Tagar	<i>Veleriana wallichii</i>
Tal makana	<i>Asteracantha longifolia</i>
Tejpat	<i>Cinnamomum tamale</i>
Til tael	<i>Sesamum indicum</i>
Trin Kantamarn	<i>Pinus succinifera</i>
Tudri	<i>Lebidium iberis</i>
Tukhm Kasni	<i>Cichorum antybus</i>
Tukhma Kahu	<i>Lactuca sativa</i>
Tukhma kakdi	<i>Cucumis momordica</i>
Tukhma Khatami	<i>Althoca officinalis</i>
Tukhya kanoncha	<i>Salvia spinosa</i>
Tukhya tulsi	<i>Ocimum basilicum</i>
Tumbru ke beej	<i>Zanthoxylum alatum</i>
Usthuddal (Charu)	<i>Lavendula carnosa</i>
Vakuchi beej	<i>Psoralia corylifolia</i>
Vantakur	<i>Ficus benghalensis</i>
Varg babul	<i>Acacia arabica</i>
Varga hina	<i>Lawsonia inermis</i>
Varun chanai	<i>Crateva religiosa</i>
Vatsnam	<i>Aconitum ferox</i>
Vay vinag	<i>Embelia ribes</i>
Vidarikand	<i>Peuraria tuberosa</i>
Vidhara	<i>Argeria speciosa</i>
Yasava	<i>Alhagi camelorum</i>



Annexure VIII.7

Checklist of mammals recorded / reported from the catchment area of Ramganga.

Common name	Scientific name	Local name	WPA. Sch
Small-clawed otter	<i>Aonyx cinerea</i>	Udh Bilao	VU (IUCN)
Spotted deer	<i>Axis axis</i>	Chital	III
Hog deer	<i>Axis porcinus</i>	Para	III
Large bandicoot rat	<i>Bandicota indica</i>	Chuha, Muss	V
Blue Bull	<i>Boselaphus tragocamellus</i>	Nilgai	III
Asiatic jackal	<i>Canis aureus</i>	Sheao, Gidhad	II
Sambar	<i>Cervus unicolor</i>	Jadau	III
Dhole or Wild dog	<i>Cuon alpinus</i>	Junglee Kuta	II
Short-nosed fruit bat	<i>Cynopterus sphinx</i>	Chimkadar	V
Asiatic elephant	<i>Elephas maximus</i>	Hathi	I
Leopard cat	<i>Felis bengalensis</i>	Chita Billi	I
Jungle cat	<i>Felis chaus</i>	Junglee Billi	III
Three striped squirrel	<i>Funambulus palmarum</i>	Squirrel	IV
Northern palm squirrel	<i>Funambulus pennanti</i>	Gilheri	IV
Indian bush rat	<i>Golunda ellioti myothrix</i>	Chuha, Muss	V
Long-eared hedgehog	<i>Hemiechinus auritus collaris</i>	---	IV
Indian gray mongoose	<i>Herpestes edwardsi</i>	Navla	IV
Leaf-nosed bat	<i>Hipposideros cinerascens micropus</i>	Chimkadar	V
Indian crested porcupine	<i>Hystrix indica</i>	Solli, Sahi	IV
Rufous-tailed hare	<i>Lepus nigricollis ruficaudatus</i>	Khargosh	IV
Common otter	<i>Lutra lutra monticola</i>	Udh Bilao	II
Smooth-coated otter	<i>Lutra perspicillata</i>	Udh Bilao	II
Rhesus macaque	<i>Macaca mulatta</i>	Bandar	II
Indian pangolin	<i>Manis crassicaudata</i>	Silu	I
Yellow-throated marten	<i>Martes flavigula</i>	Attreao	II
Sloth bear	<i>Melursus ursinus</i>	Bhalu	I
Barking deer	<i>Muntiacus muntjak</i>	Kakar	III
Peter's tube-nose bat	<i>Murina grisea</i>	Chimkadar	
Common Indian field mouse	<i>Mus booduga</i>	Chuha, Muss	V
Mouse	<i>Mus musculus homeurus</i>	Chuha, Muss	V
Home mouse	<i>Mus musculus tyleri</i>	Chuha, Muss	V
Hodgson's bat	<i>Myotis formosus</i>	Chimkadar	V
Goral	<i>Nemorhaedus goral</i>	Ghoral	III
Serow	<i>Nemorhaedus sumatraensis</i>	Serow	III



Annexure VIII.7

Checklist of mammals recorded / reported from the catchment area of Ramganga.

Common name	Scientific name	Local name	WPA. Sch
Bandicoot rat	<i>Nosokia indica indica</i>	Chuha, Muss	V
Himalayan palm civet	<i>Paguma larvata</i>	Bijju	II
Leopard	<i>Panthera pardus</i>	Bagh, Guldar	I
Tiger	<i>Panthera tigris</i>	Sher	I
Common palm civet	<i>Paradoxurus hermaphorditus</i>	Bijju	IV
Common giant flying squirrel	<i>Petaurista petaurista</i>	---	II
Indian pygmy pipistrelle	<i>Pipistrellus mimus mimus</i>	Chimkadar	V
Long-eared bat	<i>Plecotus auritus homochrous</i>	Chimkadar	V
Common langur	<i>Presbytis entellus</i>	Guni, Langur	II
Indian flying-fox	<i>Pteropus giganteus giganteus</i>	Chimkadar	V
Common Indian rat	<i>Rattus rattus gangutrianus</i>	Chuha, Muss	V
Common Indian rat	<i>Rattus rattus refescens</i>	Chuha, Muss	V
Little Japanese horseshoe bat	<i>Rhinoplophus cornutus blythi</i>	Chimkadar	V
Greater yellow bat	<i>Scotophilus heathi heathi</i>	Chimkadar	IV
Himalayan black bear	<i>Selenarctos thibetanus</i>	Kala Bhalu	II
Savi pygmy shrew	<i>Suncus etruscus micronyx</i>	Chuchunder	IV
House shrew	<i>Suncus murinus tytleri</i>	Chuchunder	IV
Wild boar	<i>Sus scrofa</i>	Suar	III
Indian gerbil	<i>Tatera indica</i>	----	
Small Indian civet	<i>Viverricula indica</i>	Bijju	II
Common red fox	<i>Vulpes vulpes montana</i>	Lomri	II



Annexure VIII.8

Checklist of birds reported from the Jim Corbet National Park. The IUCN status of the birds which are under least concern category (LC) and data deficient (DD) are indicated by LC/DD and non breeding population is indicated by NB.

Common name	Scientific name	IUCN Status
Shikra	<i>Accipiter badius</i>	LC/DD
Northern Goshawk	<i>Accipiter gentilis</i>	LC/DD
Eurasian Sparrowhawk	<i>Accipiter nisus</i>	LC/DD
Crested Goshawk	<i>Accipiter trivirgatus</i>	LC/DD
Besra	<i>Accipiter virgatus</i>	LC/DD
Jungle Myna	<i>Acridotheres fuscus</i>	LC/DD
Bank Myna	<i>Acridotheres ginginianus</i>	LC/DD
Common Myna	<i>Acridotheres tristis</i>	LC/DD
Blyth's Reed-Warbler	<i>Acrocephalus dumetorum</i>	LC/DD
Moustached Warbler	<i>Acrocephalus melanopogon</i>	LC/DD
Black-throated Tit	<i>Aegithalos concinnus</i>	LC/DD
Common iora	<i>Aegithina tiphia</i>	LC/DD
Cinereous Vulture	<i>Aegypius monachus</i>	NT
Mrs Gould's Sunbird	<i>Aethopyga gouldiae</i>	LC/DD
Fire-tailed Sunbird	<i>Aethopyga ignicauda</i>	LC/DD
Green-tailed Sunbird	<i>Aethopyga nipalensis</i>	LC/DD
Black-throated Sunbird	<i>Aethopyga saturata</i>	LC/DD
Crimson Sunbird	<i>Aethopyga siparaja</i>	LC/DD
Eurasian Skylark	<i>Alauda arvensis</i>	LC/DD
Oriental Skylark	<i>Alauda gulgula</i>	LC/DD
Common Kingfisher	<i>Alcedo atthis</i>	LC/DD
Chukar Partridge	<i>Alectoris chukar</i>	LC/DD
Red Avadavat	<i>Amandava amandava</i>	LC/DD
Brown Crake	<i>Amaurornis akool</i>	LC/DD
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	LC/DD
Northern Pintail	<i>Anas acuta</i>	LC/DD
Northern Shoveler	<i>Anas clypeata</i>	LC/DD
Common Teal	<i>Anas crecca</i>	LC/DD
Falcated Duck	<i>Anas falcata</i>	LC/DD
Eurasian Wigeon	<i>Anas Penelope</i>	LC/DD
Mallard	<i>Anas platyrhynchos</i>	LC/DD
Spot-billed Duck	<i>Anas poecilorhyncha</i>	LC/DD
Garganey	<i>Anas querquedula</i>	LC/DD
Gadwall	<i>Anas strepera</i>	LC/DD
Asian Openbill	<i>Anastomus oscitans</i>	LC/DD



Annexure VIII.8

Checklist of birds reported from the Jim Corbet National Park. The IUCN status of the birds which are under least concern category (LC) and data deficient (DD) are indicated by LC/DD and non breeding population is indicated by NB.

Oriental Darter	<i>Anhinga melanogaster</i>	NT
Greylag Goose	<i>Anser anser</i>	LC/DD
Bar-headed Goose	<i>Anser indicus</i>	LC/DD
Oriental Pied-Hornbill	<i>Anthracoceros albirostris</i>	LC/DD
Tawny Pipit	<i>Anthus campestris</i>	LC/DD
Olive-backed Pipit	<i>Anthus hodgsoni</i>	LC/DD
Rosy Pipit	<i>Anthus roseatus</i>	LC/DD
Paddyfield Pipit	<i>Anthus rufulus</i>	LC/DD
Long-billed Pipit	<i>Anthus similis</i>	LC/DD
Water Pipit	<i>Anthus spinoletta</i>	LC/DD
Upland Pipit	<i>Anthus sylvanus</i>	LC/DD
Tree Pipit	<i>Anthus trivialis</i>	LC/DD
House Swift	<i>Apus affinis</i>	LC/DD
Common Swift	<i>Apus apus</i>	LC/DD
Fork-tailed Swift	<i>Apus pacificus</i>	LC/DD
Golden Eagle	<i>Aquila chrysaetos</i>	LC/DD
Greater Spotted Eagle	<i>Aquila clanga</i>	VU-NB
Imperial Eagle	<i>Aquila heliaca</i>	VU-NB
Steppe Eagle	<i>Aquila nipalensis</i>	LC/DD
Lesser Spotted Eagle	<i>Aquila pomarina</i>	LC/DD
Tawny Eagle	<i>Aquila rapax</i>	LC/DD
Hill Partridge	<i>Arborophila torqueola</i>	LC/DD
Grey Heron	<i>Ardea cinerea</i>	LC/DD
Purple Heron	<i>Ardea purpurea</i>	LC/DD
Indian Pond-Heron	<i>Ardeola grayii</i>	LC/DD
Ashy Wood-swallow	<i>Artamus fuscus</i>	LC/DD
Short-eared Owl	<i>Asio flammeus</i>	LC/DD
Long-eared Owl	<i>Asio otus</i>	LC/DD
Spotted Owlet	<i>Athene brama</i>	LC/DD
Black Baza	<i>Aviceda leuphotes</i>	LC/DD
Common Pochard	<i>Aythya ferina</i>	LC/DD
Tufted Duck	<i>Aythya fuligula</i>	LC/DD
Ferruginous Pochard	<i>Aythya nyroca</i>	LC/DD
Long Billed Bush-Warbler	<i>Bradypterus major</i>	NT
Spotted Bush-Warbler	<i>Bradypterus thoracicus</i>	LC/DD
Eurasian Eagle-Owl	<i>Bubo bubo</i>	LC/DD
Dusky Eagle-Owl	<i>Bubo coromandus</i>	LC/DD



Annexure VIII.8

Checklist of birds reported from the Jim Corbet National Park. The IUCN status of the birds which are under least concern category (LC) and data deficient (DD) are indicated by LC/DD and non breeding population is indicated by NB.

Spot-bellied Eagle-Owl	<i>Bubo nipalensis</i>	LC/DD
Cattle Egret	<i>Bubulcus ibis</i>	LC/DD
Great Hornbill	<i>Buceros bicornis</i>	NT
Eurasian Thick-knee	<i>Burhinus oedicnemus</i>	LC/DD
Great Thick-knee	<i>Burhinus recurvirostris</i>	LC/DD
White-eyed Buzzard	<i>Butastur teesa</i>	LC/DD
Common Buzzard	<i>Buteo buteo</i>	LC/DD
Upland Buzzard	<i>Buteo hemilasius</i>	LC/DD
Long-legged Buzzard	<i>Buteo rufinus</i>	LC/DD
Little Heron	<i>Butorides striatus</i>	LC/DD
Plaintive Cuckoo	<i>Cacomantis merulinus</i>	LC/DD
Grey-bellied Cuckoo	<i>Cacomantis passerinus</i>	LC/DD
Banded Bay Cuckoo	<i>Cacomantis sonneratii</i>	LC/DD
Greater Short-toed Lark	<i>Calandrella brachydactyla</i>	LC/DD
Sand Lark	<i>Calandrella raytal</i>	LC/DD
Dunlin	<i>Calidris alpina</i>	LC/DD
Little Stint	<i>Calidris minuta</i>	LC/DD
Long toed Stint	<i>Calidris subminuta</i>	LC/DD
Temminck's Stint	<i>Calidris temminckii</i>	LC/DD
Savanna Nightjar	<i>Caprimulgus affinis</i>	LC/DD
Indian Nightjar	<i>Caprimulgus asiaticus</i>	LC/DD
Grey Nightjar	<i>Caprimulgus indicus</i>	LC/DD
Large-tailed Nightjar	<i>Caprimulgus macrurus</i>	LC/DD
European Goldfinch	<i>Carduelis carduelis</i>	LC/DD
Yellow-breasted Greenfinch	<i>Carduelis spinoides</i>	LC/DD
Common Rosefinch	<i>Carpodacus erythrinus</i>	LC/DD
Pink-browed Rosefinch	<i>Carpodacus rodochrous</i>	LC/DD
Great Egret	<i>Casmerodius albus</i>	LC/DD
Rufous Woodpecker	<i>Celeus brachyurus</i>	LC/DD
Lesser Coucal	<i>Centropus bengalensis</i>	LC/DD
Greater Coucal	<i>Centropus sinensis</i>	LC/DD
Fire-capped Tit	<i>Cephalopyrus flammiceps</i>	LC/DD
Brown Rock Chat	<i>Cercomela fusca</i>	LC/DD
Bar-tailed Tree-creeper	<i>Certhia himalayana</i>	LC/DD
Pied Kingfisher	<i>Ceryle rudis</i>	LC/DD
Grey-sided Bush-Warbler	<i>Cettia brunnifrons</i>	LC/DD
Aberrant Bush-Warbler	<i>Cettia flavolivacea</i>	LC/DD



Annexure VIII.8

Checklist of birds reported from the Jim Corbet National Park. The IUCN status of the birds which are under least concern category (LC) and data deficient (DD) are indicated by LC/DD and non breeding population is indicated by NB.

Brownish Flanked Bush-Warbler	<i>Cettia fortipes</i>	LC/DD
Chestnut-crowned Bush-Warbler	<i>Cettia major</i>	LC/DD
Pale-footed Bush-Warbler	<i>Cettia pallidipes</i>	LC/DD
Bristled Grassbird	<i>Chaetornis striata</i>	VU
White-capped Water-Redstart	<i>Chaimarrornis leucocephalus</i>	LC/DD
Emerald Dove	<i>Chalcophaps indica</i>	LC/DD
Kentish Plover	<i>Charadrius alexandrinus</i>	LC/DD
Little Ringed Plover	<i>Charadrius dubius</i>	LC/DD
Greater Sand Plover	<i>Charadrius leschenaultii</i>	LC/DD
Lesser Sand Plover	<i>Charadrius mongolus</i>	LC/DD
Whiskered Tern	<i>Chlidonias hybridus</i>	LC/DD
Golden-fronted Leafbird	<i>Chloropsis aurifrons</i>	LC/DD
Orange-bellied Leafbird	<i>Chloropsis hardwickii</i>	LC/DD
White-naped Woodpecker	<i>Chrysocolaptes festivus</i>	LC/DD
Greater Flameback	<i>Chrysocolaptes lucidus</i>	LC/DD
Yellow-eyed Babbler	<i>Chrysomma sinense</i>	LC/DD
White Stork	<i>Ciconia ciconia</i>	LC/DD
Woolly-necked Stork	<i>Ciconia episcopus</i>	LC/DD
Black Stork	<i>Ciconia nigra</i>	LC/DD
White Tailed Robin	<i>Cinclidium leucurum</i>	LC/DD
Brown Dipper	<i>Cinclus pallasii</i>	LC/DD
Short-toed Snake-Eagle	<i>Circaetus gallicus</i>	LC/DD
Eurasian Marsh Harrier	<i>Circus aeruginosus</i>	LC/DD
Hen Harrier	<i>Circus cyaneus</i>	LC/DD
Pallid Harrier	<i>Circus macrourus</i>	NT
Pied Harrier	<i>Circus melanoleucos</i>	LC/DD
Common Green Magpie	<i>Cissa chinensis</i>	LC/DD
Bright-headed Cisticola	<i>Cisticola exilis</i>	LC/DD
Zitting Cisticola	<i>Cisticola juncidis</i>	LC/DD
Chestnut-winged Cuckoo	<i>Clamator coromandus</i>	LC/DD
Purple Cochoa	<i>Cochoa purpurea</i>	LC/DD
Himalayan Swiftlet	<i>Collocalia brevirostris</i>	LC/DD
Speckled Wood-Pigeon	<i>Columba hodgsonii</i>	LC/DD
Rock Pigeon	<i>Columba livia</i>	LC/DD
Hill Pigeon	<i>Columba rupestris</i>	LC/DD
White-rumped Shama	<i>Copsychus malabaricus</i>	LC/DD
Oriental Magpie-Robin	<i>Copsychus saularis</i>	LC/DD



Annexure VIII.8

Checklist of birds reported from the Jim Corbet National Park. The IUCN status of the birds which are under least concern category (LC) and data deficient (DD) are indicated by LC/DD and non breeding population is indicated by NB.

Indian Roller	<i>Coracias benghalensis</i>	LC/DD
European Roller	<i>Coracias garrulus</i>	LC/DD
Large Cuckoo-shrike	<i>Coracina macei</i>	LC/DD
Black-headed Cuckoo-shrike	<i>Coracina melanoptera</i>	LC/DD
Black-winged Cuckoo-shrike	<i>Coracina melaschistos</i>	LC/DD
Large-billed Crow	<i>Corvus macrorhynchos</i>	LC/DD
House Crow	<i>Corvus splendens</i>	LC/DD
Rain Quail	<i>Coturnix coromandelica</i>	LC/DD
Common Quail	<i>Coturnix coturnix</i>	LC/DD
Eurasian Cuckoo	<i>Cuculus canorus</i>	LC/DD
Indian Cuckoo	<i>Cuculus micropterus</i>	LC/DD
Large Hawk-Cuckoo	<i>Cuculus sparveroides</i>	LC/DD
Common Hawk-Cuckoo	<i>Cuculus varius</i>	LC/DD
Grey-headed Canary-Flycatcher	<i>Culicicapa ceylonensis</i>	LC/DD
Pale Chinned-Flycatcher	<i>Cyornis poliogenys</i>	LC/DD
Tickell's Blue-Flycatcher	<i>Cyornis tickelliae</i>	LC/DD
Asian Palm-Swift	<i>Cypsiurus balasiensis</i>	LC/DD
Asian House Martin	<i>Delichon dasypus</i>	LC/DD
Nepal House-Martin	<i>Delichon nipalensis</i>	LC/DD
Northern House-Martin	<i>Delichon urbica</i>	LC/DD
Grey Treepie	<i>Dendrocitta formosae</i>	LC/DD
Rufous Treepie	<i>Dendrocitta vagabunda</i>	LC/DD
Brown-fronted Woodpecker	<i>Dendrocopos auriceps</i>	LC/DD
Grey-capped Pygmy Woodpecker	<i>Dendrocopos canicapillus</i>	LC/DD
Himalayan Woodpecker	<i>Dendrocopos himalayensis</i>	LC/DD
Fulvous-breasted Woodpecker	<i>Dendrocopos macei</i>	LC/DD
Yellow-crowned Woodpecker	<i>Dendrocopos mahrattensis</i>	LC/DD
Brown-capped Pygmy Woodpecker	<i>Dendrocopos nanus</i>	LC/DD
Fulvous Whistling-Duck	<i>Dendrocygna bicolor</i>	LC/DD
Lesser Whistling-Duck	<i>Dendrocygna javanica</i>	LC/DD
Forest Wagtail	<i>Dendronanthus indicus</i>	LC/DD
Thick-billed Flowerpecker	<i>Dicaeum agile</i>	LC/DD
Pale-billed Flowerpecker	<i>Dicaeum erythrorhynchos</i>	LC/DD
Fire-breasted Flowerpecker	<i>Dicaeum ignipectus</i>	LC/DD
Bronzed Drongo	<i>Dicrurus aeneus</i>	LC/DD
White-bellied Drongo	<i>Dicrurus caeruleus</i>	LC/DD
Spangled Drongo	<i>Dicrurus hottentottus</i>	LC/DD



Annexure VIII.8

Checklist of birds reported from the Jim Corbet National Park. The IUCN status of the birds which are under least concern category (LC) and data deficient (DD) are indicated by LC/DD and non breeding population is indicated by NB.

Ashy Drongo	<i>Dicrurus leucophaeus</i>	LC/DD
Black Drongo	<i>Dicrurus macrocercus</i>	LC/DD
Greater Racket-tailed Drongo	<i>Dicrurus paradiseus</i>	LC/DD
Lesser Racket-tailed Drongo	<i>Dicrurus remifer</i>	LC/DD
Black- Rumped Flameback	<i>Dinopium benghalense</i>	LC/DD
Himalayan Flameback	<i>Dinopium shorii</i>	LC/DD
Tawny-bellied Babbler	<i>Dumetia hypertyra</i>	LC/DD
Little Egret	<i>Egretta garzetta</i>	LC/DD
Western Reef Egret	<i>Egretta gularis</i>	LC/DD
Black Shouldered Kite	<i>Elanus caeruleus</i>	LC/DD
Red-Headed Bunting	<i>Emberiza bruniceps</i>	LC/DD
Rock Bunting	<i>Emberiza cia</i>	LC/DD
Chestnut-eared Bunting	<i>Emberiza fucata</i>	LC/DD
Pine Bunting	<i>Emberiza leucocephalos</i>	LC/DD
Black-faced Bunting	<i>Emberiza spodocephala</i>	LC/DD
White Capped Bunting	<i>Emberiza stewarti</i>	LC/DD
Black-backed Forktail	<i>Enicurus immaculatus</i>	LC/DD
Spotted Forktail	<i>Enicurus maculatus</i>	LC/DD
Slaty-backed Forktail	<i>Enicurus schistaceus</i>	LC/DD
Little Forktail	<i>Enicurus scouleri</i>	LC/DD
Black-necked Stork	<i>Ephippiorhynchus asiaticus</i>	NT
Ashy-crowned Sparrow-Lark	<i>Eremopterix grisea</i>	LC/DD
Asian Koel	<i>Eudynamis scolopacea</i>	LC/DD
Verditer Flycatcher	<i>Eumyias thalassina</i>	LC/DD
Dollarbird	<i>Eurystomus orientalis</i>	LC/DD
Amur Falcon	<i>Falco amurensis</i>	LC/DD
Red-necked Falcon	<i>Falco chicquera</i>	LC/DD
Laggar Falcon	<i>Falco jugger</i>	LC/DD
Peregrine Falcon	<i>Falco peregrinus</i>	LC/DD
Oriental Hobby	<i>Falco severus</i>	LC/DD
Common Kestrel	<i>Falco tinnunculus</i>	LC/DD
Slaty-backed Flycatcher	<i>Ficedula hodgsonii</i>	LC/DD
Snowy-browed Flycatcher	<i>Ficedula hypertyra</i>	LC/DD
Red-throated Flycatcher	<i>Ficedula parva</i>	LC/DD
Rufous-gorgeted Flycatcher	<i>Ficedula strophia</i>	LC/DD
Ultramarine Flycatcher	<i>Ficedula superciliaris</i>	LC/DD
Slaty-blue Flycatcher	<i>Ficedula tricolor</i>	LC/DD



Annexure VIII.8

Checklist of birds reported from the Jim Corbet National Park. The IUCN status of the birds which are under least concern category (LC) and data deficient (DD) are indicated by LC/DD and non breeding population is indicated by NB.

Little Pied Flycatcher	<i>Ficedula westermanni</i>	LC/DD
Black Francolin	<i>Francolinus francolinus</i>	LC/DD
Chaffinch	<i>Fringilla coelebs</i>	LC/DD
Common Coot	<i>Fulica atra</i>	LC/DD
Crested Lark	<i>Galerida cristata</i>	LC/DD
Common Snipe	<i>Gallinago gallinago</i>	LC/DD
Wood Snipe	<i>Gallinago nemoricola</i>	VU
Pintail Snipe	<i>Gallinago stenura</i>	LC/DD
Common Moorhen	<i>Gallinula chloropus</i>	LC/DD
Red Junglefowl	<i>Gallus gallus</i>	LC/DD
Chestnut-crowned Laughingthrush	<i>Garrulax erythrocephalus</i>	LC/DD
White-throated Laughingthrush	<i>Garrulax albogularis</i>	LC/DD
White-crested Laughingthrush	<i>Garrulax leucolophus</i>	LC/DD
Streaked Laughingthrush	<i>Garrulax lineatus</i>	LC/DD
Rufous-chinned Laughingthrush	<i>Garrulax rufogularis</i>	LC/DD
Striated Laughingthrush	<i>Garrulax striatus</i>	LC/DD
Variegated Laughingthrush	<i>Garrulax variegates</i>	LC/DD
Eurasian Jay	<i>Garrulus glandarius</i>	LC/DD
Black-headed Jay	<i>Garrulus lanceolatus</i>	LC/DD
Small Pratincole	<i>Glareola lactea</i>	LC/DD
Collared Owlet	<i>Glaucidium brodiei</i>	LC/DD
Asian Barred Owlet	<i>Glaucidium cuculoides</i>	LC/DD
Jungle Owlet	<i>Glaucidium radiatum</i>	LC/DD
Hill Myna	<i>Gracula religiosa</i>	LC/DD
Sarus Crane	<i>Grus antigone</i>	VU
Common Crane	<i>Grus grus</i>	LC/DD
Demoiselle Crane	<i>Grus virgo</i>	LC/DD
Lammergeier	<i>Gypaetus barbatus</i>	LC/DD
White-rumped Vulture	<i>Gyps bengalensis</i>	CR
Eurasian Griffon	<i>Gyps fulvus</i>	LC/DD
Himalayan Griffon	<i>Gyps himalayensis</i>	LC/DD
Long-billed Vulture	<i>Gyps indicus</i>	CR
Eurasian Oystercatcher	<i>Haematopus ostralegus</i>	LC/DD
Black-capped Kingfisher	<i>Halcyon pileata</i>	LC/DD
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	LC/DD
White-tailed Eagle	<i>Haliaeetus albicilla</i>	NT-NB
Pallas's Fish Eagle	<i>Haliaeetus leucoryphus</i>	VU



Annexure VIII.8

Checklist of birds reported from the Jim Corbet National Park. The IUCN status of the birds which are under least concern category (LC) and data deficient (DD) are indicated by LC/DD and non breeding population is indicated by NB.

Brahminy Kite	<i>Haliastur indus</i>	LC/DD
Crested Treeswift	<i>Hemiprocne coronata</i>	LC/DD
Bar-winged Flycatcher-shrike	<i>Hemipus picatus</i>	LC/DD
Ashy Bulbul	<i>Hemixos flava</i>	LC/DD
Rufous Sibia	<i>Heterophasia capistrata</i>	LC/DD
Bonelli's Eagle	<i>Hieraaetus fasciatus</i>	LC/DD
Rufous-bellied Eagle	<i>Hieraaetus kienerii</i>	LC/DD
Booted Eagle	<i>Hieraaetus pennatus</i>	LC/DD
Black-winged Stilt	<i>Himantopus himantopus</i>	LC/DD
Booted Warbler	<i>Hippolais caligata</i>	LC/DD
White-throated Needletail	<i>Hirundapus caudacutus</i>	LC/DD
Silver Backed Needletail	<i>Hirundapus cochinchinensis</i>	LC/DD
Dusky Crag-Martin	<i>Hirundo concolor</i>	LC/DD
Red-rumped Swallow	<i>Hirundo daurica</i>	LC/DD
Streak-throated Swallow	<i>Hirundo fluvicola</i>	LC/DD
Eurasian Crag-Martin	<i>Hirundo rupestris</i>	LC/DD
Barn Swallow	<i>Hirundo rustica</i>	LC/DD
Wire-tailed Swallow	<i>Hirundo smithii</i>	LC/DD
White Bellied Redstart	<i>Hodgsonius phaenicuroides</i>	LC/DD
Pheasant-tailed Jacana	<i>Hydrophasianus chirurgus</i>	LC/DD
Black-naped Monarch	<i>Hypothymis azurea</i>	LC/DD
Black Bulbul	<i>Hypsipetes leucocephalus</i>	LC/DD
Mountain Bulbul	<i>Hypsipetes maclellandii</i>	LC/DD
Ibis bill	<i>Ibidorhyncha struthersii</i>	LC/DD
Lesser Fish-Eagle	<i>Ichthyophaga humilis</i>	NT
Grey-headed Fish-Eagle	<i>Ichthyophaga ichthyaetus</i>	NT
Black Eagle	<i>Ictinaetus malayensis</i>	LC/DD
Cinnamon Bittern	<i>Ixobrychus cinnamomeus</i>	LC/DD
Black Bittern	<i>Ixobrychus flavicollis</i>	LC/DD
Little Bittern	<i>Ixobrychus minutus</i>	LC/DD
Yellow Bittern	<i>Ixobrychus sinensis</i>	LC/DD
Eurasian Wryneck	<i>Jynx torquilla</i>	LC/DD
Tawny Fish-Owl	<i>Ketupa flavipes</i>	LC/DD
Brown Fish-Owl	<i>Ketupa zeylonensis</i>	LC/DD
Rufous-tailed Shrike	<i>Lanius collurio</i>	LC/DD
Brown Shrike	<i>Lanius cristatus</i>	LC/DD
Southern Grey	<i>Lanius meridionalis</i>	LC/DD



Annexure VIII.8

Checklist of birds reported from the Jim Corbet National Park. The IUCN status of the birds which are under least concern category (LC) and data deficient (DD) are indicated by LC/DD and non breeding population is indicated by NB.

Long-tailed Shrike	<i>Lanius schach</i>	LC/DD
Grey-backed Shrike	<i>Lanius tephronotus</i>	LC/DD
Bay-backed Shrike	<i>Lanius vittatus</i>	LC/DD
Brown-headed Gull	<i>Larus brunnicephalus</i>	LC/DD
Yellow-legged Gull	<i>Larus cachinnans</i>	LC/DD
Pallas's Gull	<i>Larus ichthyaetus</i>	LC/DD
Black-headed Gull	<i>Larus ridibundus</i>	LC/DD
Silver-eared Mesia	<i>Leiothrix argentauris</i>	LC/DD
Red-billed Leiothrix	<i>Leiothrix lutea</i>	LC/DD
Lesser Adjutant	<i>Leptoptilos javanicus</i>	VU
Black-tailed Godwit	<i>Limosa limosa</i>	LC/DD
Grasshopper Warbler	<i>Locustella naevia</i>	LC/DD
Indian Silverbill	<i>Lonchura malabarica</i>	LC/DD
Black-headed Munia	<i>Lonchura malacca</i>	LC/DD
Scaly-breasted Munia	<i>Lonchura punctulata</i>	LC/DD
Kalij Pheasant	<i>Lophura leucomelanos</i>	LC/DD
Indian Blue Robin	<i>Luscinia bruunaea</i>	LC/DD
Siberian Rubythroat	<i>Luscinia calliope</i>	LC/DD
White-tailed Rubythroat	<i>Luscinia pectoralis</i>	LC/DD
Bluethroat	<i>Luscinia svecica</i>	LC/DD
Jack Snipe	<i>Lymnocyrtus minimus</i>	LC/DD
Crested Kingfisher	<i>Megaceryle lugubris</i>	LC/DD
Blue-throated Barbet	<i>Megalaima asiatica</i>	LC/DD
Coppersmith Barbet	<i>Megalaima haemacephala</i>	LC/DD
Lineated Barbet	<i>Megalaima lineata</i>	LC/DD
Great Barbet	<i>Megalaima virens</i>	LC/DD
White-cheeked Barbet	<i>Megalaima viridis</i>	LC/DD
Brown-headed Barbet	<i>Megalaima zeylanica</i>	LC/DD
Striated Grassbird	<i>Megalurus palustris</i>	LC/DD
Crested Bunting	<i>Melophus lathami</i>	LC/DD
Common Merganser	<i>Mergus merganser</i>	LC/DD
Chestnut-headed Bee-eater	<i>Merops leschenaulti</i>	LC/DD
Green Bee-eater	<i>Merops orientalis</i>	LC/DD
Blue-tailed Bee-eater	<i>Merops philippinus</i>	LC/DD
Intermediate Egret	<i>Mesophoyx intermedia</i>	LC/DD
Bronze-winged Jacana	<i>Metopidius indicus</i>	LC/DD
Collared Falconet	<i>Microhierax caerulescens</i>	LC/DD



Annexure VIII.8

Checklist of birds reported from the Jim Corbet National Park. The IUCN status of the birds which are under least concern category (LC) and data deficient (DD) are indicated by LC/DD and non breeding population is indicated by NB.

Corn bunting	<i>Miliaria calandra</i>	LC/DD
Black Kite	<i>Milvus migrans</i>	LC/DD
Blue-winged Minla	<i>Minla cyanouroptera</i>	LC/DD
Chestnut-tailed Minla	<i>Minla strigula</i>	LC/DD
Rufous-winged BushLark	<i>Mirafra assamica</i>	LC/DD
Singing BushLark	<i>Mirafra cantillans</i>	LC/DD
Indian BushLark	<i>Mirafra erythroptera</i>	LC/DD
Blue-capped Rock-Thrush	<i>Monticola cinclorhynchus</i>	LC/DD
Chestnut-bellied Rock-Thrush	<i>Monticola rufiventris</i>	LC/DD
Blue Rock-Thrush	<i>Monticola solitarius</i>	LC/DD
White Wagtail	<i>Motacilla alba</i>	LC/DD
Grey Wagtail	<i>Motacilla cinerea</i>	LC/DD
Citrine Wagtail	<i>Motacilla citreola</i>	LC/DD
Yellow Wagtail	<i>Motacilla flava</i>	LC/DD
White-browed Wagtail	<i>Motacilla madaraspatis</i>	LC/DD
Great Slaty Woodpecker	<i>Mulleripicus pulverulentus</i>	LC/DD
Asian Brown Flycatcher	<i>Muscicapa dauurica</i>	LC/DD
Rusty-tailed Flycatcher	<i>Muscicapa ruficauda</i>	LC/DD
Dark-sided Flycatcher	<i>Muscicapa sibirica</i>	LC/DD
Painted Stork	<i>Mycteria leucocephala</i>	NT
Blue Whistling-Thrush	<i>Myiophonus caeruleus</i>	LC/DD
Purple Sunbird	<i>Nectarinia asiatica</i>	LC/DD
Egyptian Vulture	<i>Neophron percnopterus</i>	LC/DD
Small Niltava	<i>Niltava macgrigoriae</i>	LC/DD
Rufous-bellied Niltava	<i>Niltava sundara</i>	LC/DD
Brown Hawk-Owl	<i>Ninox scutulata</i>	LC/DD
Eurasian Curlew	<i>Numenius arquata</i>	LC/DD
Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>	LC/DD
Blue-bearded Bee-eater	<i>Nyctornis athertoni</i>	LC/DD
Indian Grey-Hornbill	<i>Ocyrceros birostris</i>	LC/DD
Desert Wheatear	<i>Oenanthe deserti</i>	LC/DD
Isabelline Wheatear	<i>Oenanthe isabellina</i>	LC/DD
Variable Wheatear	<i>Oenanthe picata</i>	LC/DD
Eurasian Golden-Oriole	<i>Oriolus oriolus</i>	LC/DD
Maroon Oriole	<i>Oriolus traillii</i>	LC/DD
Black-hooded Oriole	<i>Oriolus xanthornus</i>	LC/DD
Common Tailorbird	<i>Orthotomus sutorius</i>	LC/DD



Annexure VIII.8

Checklist of birds reported from the Jim Corbet National Park. The IUCN status of the birds which are under least concern category (LC) and data deficient (DD) are indicated by LC/DD and non breeding population is indicated by NB.

Collared Scops-Owl	<i>Otus bakkamoena</i>	LC/DD
Mountain Scops-Owl	<i>Otus spilocephalus</i>	LC/DD
Oriental Scops-Owl	<i>Otus sunia</i>	LC/DD
Pied Cuckoo	<i>Oxylophus jacobinus</i>	LC/DD
Osprey	<i>Pandion haliaetus</i>	LC/DD
Great Tit	<i>Parus major</i>	LC/DD
Green-backed Tit	<i>Parus monticolus</i>	LC/DD
Rufous Naped Tit	<i>Parus rufonuchalis</i>	LC/DD
Black-lored Tit	<i>Parus xanthogenys</i>	LC/DD
House Sparrow	<i>Passer domesticus</i>	LC/DD
Eurasian Tree Sparrow	<i>Passer montanus</i>	LC/DD
Russet Sparrow	<i>Passer rutilans</i>	LC/DD
Indian Peafowl	<i>Pavo cristatus</i>	LC/DD
Stork-billed Kingfisher	<i>Pelargopsis capensis</i>	LC/DD
Great White Pelican	<i>Pelecanus onocrotalus</i>	LC/DD
Spot-billed Pelican	<i>Pelecanus philippensis</i>	NT
Puff-throated Babbler	<i>Pellorneum ruficeps</i>	LC/DD
Jungle Bush-Quail	<i>Perdica asiatica</i>	LC/DD
Short-billed Minivet	<i>Pericrocotus brevirostris</i>	LC/DD
Small Minivet	<i>Pericrocotus cinnamomeus</i>	LC/DD
Long-tailed Minivet	<i>Pericrocotus ethologus</i>	LC/DD
Scarlet Minivet	<i>Pericrocotus flammeus</i>	LC/DD
Rosy Minivet	<i>Pericrocotus roseus</i>	LC/DD
Oriental Honey-buzzard	<i>Pernis ptilorhynchus</i>	LC/DD
Chestnut-shouldered Petronia	<i>Petronia xanthocollis</i>	LC/DD
Sirkeer Malkoha	<i>Phaenicophaeus leschenaultii</i>	LC/DD
Green-billed Malkoha	<i>Phaenicophaeus tristis</i>	LC/DD
Great Cormorant	<i>Phalacrocorax carbo</i>	LC/DD
Indian Cormorant	<i>Phalacrocorax fuscicollis</i>	LC/DD
Little Cormorant	<i>Phalacrocorax niger</i>	LC/DD
Lesser Flamingo	<i>Phoenicopterus minor</i>	NT
Greater Flamingo	<i>Phoenicopterus ruber</i>	LC/DD
Blue-capped Redstart	<i>Phoenicurus caeruleocephalus</i>	LC/DD
Blue Fronted Redstart	<i>Phoenicurus frontalis</i>	LC/DD
Hodgson's Redstart	<i>Phoenicurus hodgsoni</i>	LC/DD
Black Redstart	<i>Phoenicurus ochruros</i>	LC/DD
White Throated Redstart	<i>Phoenicurus schisticeps</i>	LC/DD



Checklist of birds reported from the Jim Corbet National Park. The IUCN status of the birds which are under least concern category (LC) and data deficient (DD) are indicated by LC/DD and non breeding population is indicated by NB.

Tickell's Leaf-Warbler	<i>Phylloscopus affinis</i>	LC/DD
Lemon-rumped Warbler	<i>Phylloscopus chloronotus</i>	LC/DD
Common Chiffchaff	<i>Phylloscopus collybita</i>	LC/DD
Smoky Warbler	<i>Phylloscopus fuligiventer</i>	LC/DD
Dusky Warbler	<i>Phylloscopus fuscatus</i>	LC/DD
Hume's Warbler	<i>Phylloscopus humei</i>	LC/DD
Ashy-throated Warbler	<i>Phylloscopus maculipennis</i>	LC/DD
Plain Leaf-Warbler	<i>Phylloscopus neglectus</i>	LC/DD
Western Crowned-Warbler	<i>Phylloscopus occipitalis</i>	LC/DD
Buff-barred Warbler	<i>Phylloscopus pulcher</i>	LC/DD
Blyth's Leaf-Warbler	<i>Phylloscopus reguloides</i>	LC/DD
Buff-throated Warbler	<i>Phylloscopus subaffinis</i>	LC/DD
Brook's Leaf Warbler	<i>Phylloscopus subviridis</i>	LC/DD
Greenish Warbler	<i>Phylloscopus trochiloides</i>	LC/DD
Tytler's Leaf Warbler	<i>Phylloscopus tytleri</i>	LC/DD
Speckled Piculet	<i>Picumnus innominatus</i>	LC/DD
Grey-Headed Woodpecker	<i>Picus canus</i>	LC/DD
Lesser Yellownape	<i>Picus chlorolophus</i>	LC/DD
Greater Yellownape	<i>Picus flavinucha</i>	LC/DD
Scaly-bellied Woodpecker	<i>Picus squamatus</i>	LC/DD
Streak – Throated Woodpecker	<i>Picus xanthopygaeus</i>	LC/DD
Indian Pitta	<i>Pitta brachyura</i>	LC/DD
Eurasian Spoonbill	<i>Platalea leucorodia</i>	LC/DD
Glossy Ibis	<i>Plegadis falcinellus</i>	LC/DD
Black-breasted Weaver	<i>Ploceus benghalensis</i>	LC/DD
Streaked Weaver	<i>Ploceus manyar</i>	LC/DD
Finn's Weaver / Yellow Weaver	<i>Ploceus megarhynchus</i>	VU
Baya Weaver	<i>Ploceus philippinus</i>	LC/DD
Scaly-breasted Wren Babbler	<i>Pnoepyga albiventer</i>	LC/DD
Nepal Wren Babbler	<i>Pnoepyga immaculata</i>	LC/DD
Horned Grebe	<i>Podiceps auritus</i>	LC/DD
Great Crested Grebe	<i>Podiceps cristatus</i>	LC/DD
Rusty-cheeked Scimitar-Babbler	<i>Pomatorhinus erythrogenys</i>	LC/DD
Streak-breasted Scimitar-Babbler	<i>Pomatorhinus ruficollis</i>	LC/DD
Purple Swampfen	<i>Porphyrio porphyrio</i>	LC/DD
Ruddy-breasted Crake	<i>Porzana fusca</i>	LC/DD
Rufous-fronted Prinia	<i>Prinia buchanani</i>	LC/DD



Annexure VIII.8

Checklist of birds reported from the Jim Corbet National Park. The IUCN status of the birds which are under least concern category (LC) and data deficient (DD) are indicated by LC/DD and non breeding population is indicated by NB.

Grey-crowned Prinia	<i>Prinia cinereocapilla</i>	VU
Striated Prinia	<i>Prinia criniger</i>	LC/DD
Yellow Bellied Prinia	<i>Prinia flaviventris</i>	LC/DD
Graceful Prinia	<i>Prinia gracilis</i>	LC/DD
Grey-breasted Prinia	<i>Prinia hodgsonii</i>	LC/DD
Plain Prinia	<i>Prinia inornata</i>	LC/DD
Ashy Prinia	<i>Prinia socialis</i>	LC/DD
Jungle Prinia	<i>Prinia sylvatica</i>	LC/DD
Black-throated Accentor	<i>Prunella atrogularis</i>	LC/DD
Alpine Accentor	<i>Prunella collaris</i>	LC/DD
Altai Accentor	<i>Prunella himalayana</i>	LC/DD
Rufous-breasted Accentor	<i>Prunella strophia</i>	LC/DD
Long-tailed Broadbill	<i>Psarisomus dalhousiae</i>	LC/DD
Black Ibis	<i>Pseudibis papillosa</i>	LC/DD
Red-breasted Parakeet	<i>Psittacula alexandri</i>	LC/DD
Plum-headed Parakeet	<i>Psittacula cyanocephala</i>	LC/DD
Alexandrine Parakeet	<i>Psittacula eupatria</i>	LC/DD
Slaty-headed Parakeet	<i>Psittacula himalayana</i>	LC/DD
Rose-ringed Parakeet	<i>Psittacula krameri</i>	LC/DD
Pin tailed Sandgrouse	<i>Pterocles alchata</i>	LC/DD
White-Browed Shrike Babbler	<i>Pteruthius flaviscapis</i>	LC/DD
White-browed Shrike-Babbler	<i>Pteruthius flaviscapis</i>	LC/DD
Green Shrike Babbler	<i>Pteruthius xanthochlorus</i>	LC/DD
Red-vented Bulbul	<i>Pycnonotus cafer</i>	LC/DD
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	LC/DD
Himalayan Bulbul	<i>Pycnonotus leucogenys</i>	LC/DD
Black-crested Bulbul	<i>Pycnonotus melanicterus</i>	LC/DD
Straited Bulbul	<i>Pycnonotus striatus</i>	LC/DD
Water Rail	<i>Rallus aquaticus</i>	LC/DD
Pied Avocet	<i>Recurvirostra avosetta</i>	LC/DD
Goldcrest	<i>Regulus regulus</i>	LC/DD
White-throated Fantail	<i>Rhipidura albicollis</i>	LC/DD
White-browed Fantail	<i>Rhipidura aureola</i>	LC/DD
Yellow-bellied Fantail	<i>Rhipidura hypoxantha</i>	LC/DD
Red-crested Pochard	<i>Rhodonessa rufina</i>	LC/DD
Plumbeous Water-Redstart	<i>Rhyacornis fuliginosus</i>	LC/DD
Plain Martin	<i>Riparia paludicola</i>	LC/DD



Annexure VIII.8

Checklist of birds reported from the Jim Corbet National Park. The IUCN status of the birds which are under least concern category (LC) and data deficient (DD) are indicated by LC/DD and non breeding population is indicated by NB.

Sand Martin	<i>Riparia riparia</i>	LC/DD
Indian Skimmer	<i>Rynchops albicollis</i>	VU
Red-headed Vulture	<i>Sarcogyps calvus</i>	NT
Comb Duck	<i>Sarkidiornis melanotos</i>	LC/DD
Spot Winged Tit	<i>Saroglossa spiloptera</i>	LC/DD
Spot-winged Starling	<i>Saroglossa spiloptera</i>	LC/DD
Pied Bushchat	<i>Saxicola caprata</i>	LC/DD
Grey Bushchat	<i>Saxicola ferrea</i>	LC/DD
Hodgson's Bushchat	<i>Saxicola insignis</i>	VU -NB
White-tailed Stonechat	<i>Saxicola leucura</i>	LC/DD
Common Stonechat	<i>Saxicola torquata</i>	LC/DD
Indian Robin	<i>Saxicoloides fulicata</i>	LC/DD
Eurasian Woodcock	<i>Scolopax rusticola</i>	LC/DD
Golden-spectacled Warbler	<i>Seicercus burkii</i>	LC/DD
Chestnut Crowned Warbler	<i>Seicercus castaniceps</i>	LC/DD
Grey-hooded Warbler	<i>Seicercus xanthoschistos</i>	LC/DD
Fire-fronted Serin	<i>Serinus pusillus</i>	LC/DD
Chestnut-bellied Nuthatch	<i>Sitta castanea</i>	LC/DD
Velvet-fronted Nuthatch	<i>Sitta frontalis</i>	LC/DD
White-tailed Nuthatch	<i>Sitta himalayensis</i>	LC/DD
Crested Serpent-Eagle	<i>Spilornis cheela</i>	LC/DD
Changeable Hawk-Eagle	<i>Spizaetus cirrhatus</i>	LC/DD
Mountain Hawk-Eagle	<i>Spizaetus nipalensis</i>	LC/DD
Black-chinned Babbler	<i>Stachyris pyrrhops</i>	LC/DD
Black-bellied Tern	<i>Sterna acuticauda</i>	NT
River Tern	<i>Sterna aurantia</i>	LC/DD
Gull-billed Tern	<i>Sterna nilotica</i>	LC/DD
Spotted Dove	<i>Streptopelia chinensis</i>	LC/DD
Eurasian Collared-Dove	<i>Streptopelia decaocto</i>	LC/DD
Oriental Turtle-Dove	<i>Streptopelia orientalis</i>	LC/DD
Laughing Dove	<i>Streptopelia senegalensis</i>	LC/DD
Red Collared-Dove	<i>Streptopelia tranquebarica</i>	LC/DD
Brown Wood-Owl	<i>Strix leptogrammica</i>	LC/DD
Asian Pied Starling	<i>Sturnus contra</i>	LC/DD
Chestnut-tailed Starling	<i>Sturnus malabaricus</i>	LC/DD
Brahminy Starling	<i>Sturnus pagodarum</i>	LC/DD
Rosy Starling	<i>Sturnus roseus</i>	LC/DD



Annexure VIII.8

Checklist of birds reported from the Jim Corbet National Park. The IUCN status of the birds which are under least concern category (LC) and data deficient (DD) are indicated by LC/DD and non breeding population is indicated by NB.

Common Starling	<i>Sturnus vulgaris</i>	LC/DD
Drongo Cuckoo	<i>Surniculus lugubris</i>	LC/DD
Lesser Whitethroat	<i>Sylvia curruca</i>	LC/DD
Orphean Warbler	<i>Sylvia hortensis</i>	LC/DD
Little Grebe	<i>Tachybaptus ruficollis</i>	LC/DD
Alpine Swift	<i>Tachymarptis melba</i>	LC/DD
Ruddy Shelduck	<i>Tadorna ferruginea</i>	LC/DD
Common Shelduck	<i>Tadorna tadorna</i>	LC/DD
Golden Bush-Robin	<i>Tarsiger chrysaeus</i>	LC/DD
Orange-flanked Bush-Robin	<i>Tarsiger cyanurus</i>	LC/DD
Large Woodshrike	<i>Tephrodornis gularis</i>	LC/DD
Common Woodshrike	<i>Tephrodornis pondicerianus</i>	LC/DD
Asian Paradise-Flycatcher	<i>Terpsiphone paradisi</i>	LC/DD
Chestnut-headed Tesia	<i>Tesia castaneocoronata</i>	LC/DD
Grey-bellied Tesia	<i>Tesia cyaniventer</i>	LC/DD
Black-headed Ibis	<i>Threskiornis melanocephalus</i>	NT
Wallcreeper	<i>Tichodroma muraria</i>	LC/DD
Chestnut-capped Babbler	<i>Timalia pileata</i>	LC/DD
Pin-tailed Green-Pigeon	<i>Treron apicauda</i>	LC/DD
Orange-breasted Green-Pigeon	<i>Treron bicincta</i>	LC/DD
Yellow-footed Green-Pigeon	<i>Treron phoenicoptera</i>	LC/DD
Wedge-tailed Green-Pigeon	<i>Treron sphenura</i>	LC/DD
Wood Sandpiper	<i>Tringa glareola</i>	LC/DD
Common Sandpiper	<i>Tringa hypoleucos</i>	LC/DD
Common Greenshank	<i>Tringa nebularia</i>	LC/DD
Green Sandpiper	<i>Tringa ochropus</i>	LC/DD
Marsh Sandpiper	<i>Tringa stagnatilis</i>	LC/DD
Common Redshank	<i>Tringa totanus</i>	LC/DD
Winter Wren	<i>Troglodytes troglodytes</i>	LC/DD
Common Babbler	<i>Turdoides caudatus</i>	LC/DD
Large Grey Babbler	<i>Turdoides malcolmi</i>	LC/DD
Jungle Babbler	<i>Turdoides striatus</i>	LC/DD
White-collared Blackbird	<i>Turdus albocinctus</i>	LC/DD
Grey-winged Blackbird	<i>Turdus boulboul</i>	LC/DD
Dark-throated Thrush	<i>Turdus ruficollis</i>	LC/DD
Tickell's Thrush	<i>Turdus unicolor</i>	LC/DD
Mistle Thrush	<i>Turdus viscivorus</i>	LC/DD



Annexure VIII.8

Checklist of birds reported from the Jim Corbet National Park. The IUCN status of the birds which are under least concern category (LC) and data deficient (DD) are indicated by LC/DD and non breeding population is indicated by NB.

Barred Buttonquail	<i>Turnix suscitator</i>	LC/DD
Small Buttonquail	<i>Turnix sylvatica</i>	LC/DD
Barn Owl	<i>Tyto alba</i>	LC/DD
Grass-Owl	<i>Tyto capensis</i>	LC/DD
Common Hoopoe	<i>Upupa epops</i>	LC/DD
Red-billed Blue Magpie	<i>Urocissa erythrorhyncha</i>	LC/DD
River Lapwing	<i>Vanellus duvaucelii</i>	LC/DD
Sociable Lapwing	<i>Vanellus gregarius</i>	VU -NB
Red-wattled Lapwing	<i>Vanellus indicus</i>	LC/DD
White-tailed Lapwing	<i>Vanellus leucurus</i>	LC/DD
Yellow-wattled Lapwing	<i>Vanellus malabaricus</i>	LC/DD
Northern Lapwing	<i>Vanellus vanellus</i>	LC/DD
Whiskered Yuhina	<i>Yuhina flavicollis</i>	LC/DD
Stripe-Throated Yuhina	<i>Yuhina gularis</i>	LC/DD
Black-chinned Yuhina	<i>Yuhina nigrimenta</i>	LC/DD
White Bellied Yuhina	<i>Yuhina zantholeuca</i>	LC/DD
White-rumped Needletail	<i>Zoonavena sylvatica</i>	LC/DD
Orange-headed Thrush	<i>Zoothera citrina</i>	LC/DD
Scaly Thrush	<i>Zoothera dauma</i>	LC/DD
Long-tailed Thrush	<i>Zoothera dixonii</i>	LC/DD
Plain-backed Thrush	<i>Zoothera mollissima</i>	LC/DD
Long-billed Thrush	<i>Zoothera monticola</i>	LC/DD
Oriental White-eye	<i>Zosterops palpebrosus</i>	LC/DD



Annexure VIII.9

List of Amphibians and Reptiles either observed or reported from the catchment and command areas of Ramganga Project

Amphibians		
Latin name	Common name	IUCN / Wildlife status
<i>Bufo melonosticatus</i>	South Indian Toad	Indeterminate
<i>Duttaphrynus melanostictus</i>	Common Indian Toad	Indeterminate
<i>Hyla arborea</i>	Tree Frog	Indeterminate
<i>Rana hexadactyla.</i>	Ordinary frog	Indeterminate
<i>Rana tigrina</i>	Tiger Frog /Indian Bull frog	Indeterminate
<i>Sphaerotheca breviceps</i>	Burrowing frog	Indeterminate
<i>Sylvirana temporalis</i>	Bronze Frog	Rare
Reptiles		
<i>Acanthodactylus cantoris</i>	Snake Lizard	Indeterminate
<i>Bungarus caeruleus</i> / <i>B. fasciatus</i>)	Krait	
<i>Calotes versicolor</i>	Garden lizard	
<i>Chameleon zeylanicus</i>	Chameleon	Vulnerable
<i>Crocodilus palustris</i>	Crocodile	Schedule I
<i>Dryophis nasutus</i>	Whip Snake	
<i>Dryophis pulverulentus</i>	Tree Snake	
<i>Echis carinatus</i>	Saw scaled viper	
<i>Elachistodon westerwani</i>	Indian Egg-eating Snake	Rare
<i>Emyda granosa</i>	Common Box Tortoise	
<i>Eryx johni</i>	Sand boa	
<i>Geoclemys hamiltonii</i>	Black Pond Turtle	Indeterminate
<i>Gravialis gangeticus</i>	Gharial	Endangered
<i>Hemidactylus brooki</i>	Small wall lizard	
<i>Hemidactylus coctaei</i>	Asian House Gecko	
<i>Hemidactylus prashadii.</i>	Wall lizard	
<i>Lissemys punctata</i>	Fresh water turtle	Indeterminate
<i>Naja naja</i>	Cobra	Schedule I
<i>Ptyas mucosus.</i> / <i>Tripidonatus pisactor</i>	Rat snake	
<i>Python molurus</i>	Indian python	Schedule I
<i>Testudo elegans</i>	Indian star tortoise	Schedule I
<i>Trionyx gangeticus</i>	Ganga Soft-shelled Tortoise	Schedule I
<i>Typholops brahminus</i>	Blind Snake	Indeterminate
<i>Varanus bengalensis</i>	Monitor lizard	Schedule I
<i>Varanus flavescens</i>	Barred Monitor	Indeterminate
<i>Vipera russeli</i>	Russell's viper	Vulnerable



Annexure VIII.10

Butterflies, Moths and Honey bees reported from the catchment and command areas of Ramganga project.

Latin name	Common name	Name of the group
<i>Allotinus fabius</i>	Angled Darkie	The Darkies
<i>Allotinus multistrigatus</i>	Great Darkie	The Darkies
<i>Allotinus subviolaceus</i>	Blue Darkie	The Darkies
<i>Atrophaneura aidoneus</i>	Lesser Batwing,	Jays
<i>Atrophaneura varuna</i>	Common Batwing	Jays
<i>Celastrina argiolus</i>	Hill Hedge Blue	The blues
<i>Celastrina cardia</i>	Pale Hedge Blue	The blues
<i>Celastrina huegeli</i>	Large Hedge Blue	The blues
<i>Celastrina iyntea</i>	Jyntea Hedge Blue	The blues
<i>Celastrina ladonides</i>	Silvery Hedge Blue	The blues
<i>Celastrina lavendularis</i>	Plain Hedge Blue	The blues
<i>Celastrina melaena</i>	Metallic Hedge Blue	The blues
<i>Celastrina musina</i>	Swinhoe's Hedge Blue	The blues
<i>Charaxes aristogiton</i>	Scarce Tawny Rajah	The Rajahs
<i>Charaxes bernardus</i>	Tawny Rajah	The Rajahs
<i>Charaxes durnfordi</i>	Chestnut Rajah	The Rajahs
<i>Charaxes kahruba</i>	Variegated Rajah	The Rajahs
<i>Charaxes marmax</i>	Yellow Rajah	The Rajahs
<i>Charaxes solon</i>	Black Rajah	The Rajahs
<i>Colias</i>	The Clouded Yellows	The Grass Yellows
<i>Colias berylla</i>	Everest Clouded Yellow	The Grass Yellows
<i>Colias croceus</i>	Dark Clouded Yellow	The Grass Yellows
<i>Colias dubia</i>	Dwarf Clouded Yellow	The Grass Yellows
<i>Colias eogene</i>	Fiery Clouded Yellow	The Grass Yellows
<i>Colias hyale</i>	Pale Clouded Yellow	The Grass Yellows
<i>Colias nina</i>	Fawcett's Clouded Yellow	The Grass Yellows
<i>Colias stoliczkana</i>	Orange Clouded Yellow	The Grass Yellows
<i>Colias thrasibulus</i>	Lemon Clouded Yellow	The Grass Yellows
<i>Eurema andersonii</i>	One-Spot Grass Yellow	The Grass Yellows
<i>Eurema blanda</i>	Three-Spot Grass Yellow	The Grass Yellows
<i>Eurema brigitta</i>	Small Grass Yellow	The Grass Yellows
<i>Eurema hecabe</i>	Common Grass Yellow	The Grass Yellows
<i>Eurema laeta</i>	Spotless Grass Yellow	The Grass Yellows
<i>Graphium agamemnon</i>	Tailed Jay	Jays
<i>Graphium arycles</i>	Spotted Jay	Jays
<i>Graphium chiron</i>	Veined Jay	Jays
<i>Graphium cloanthus</i>	Glassy Bluebottle	Jays
<i>Graphium euryptylus</i>	Great Jay	Jays
<i>Graphium evemon</i>	Lesser Jay	Jays
<i>Graphium sarpedon</i>	Common Bluebottle	Jays



Annexure VIII.10

Butterflies, Moths and Honey bees reported from the catchment and command areas of Ramganga project.

<i>Lycaena kasyapa</i>	Green Copper	The Coppers
<i>Lycaena metallica</i>	Small Green Underwing	The blues
<i>Lycaena orbitulus</i>	Greenish Mountain Blue	The blues
<i>Lycaena pavana Kollar</i>	White-bordered Copper	The Coppers
<i>Lycaena phlaeas</i>	Common Copper	The Coppers
<i>Lycaena semiargus</i>	Chumbi Argus	The blues
<i>Lycaena thetis</i>	Golden Copper	The Coppers
<i>Miletus biggsii</i>	Bigg's Brownie	The Brownies
<i>Miletus boisduvali</i>	Common Brownie	The Brownies
<i>Miletus chinensis</i>	Common Brownie	The Brownies
<i>Miletus longeana</i>	Long's Brownie	The Brownies
<i>Miletus symethus</i>	Great Brownie	The Brownies
<i>Papilio alcmenor</i>	Redbreast	Swallowtails
<i>Papilio arcturus</i>	Blue Peacock	Swallowtails
<i>Papilio bootes</i>	Tailed Redbreast	Swallowtails
<i>Papilio crino</i>	Common Banded Peacock	Swallowtails
<i>Papilio elephenor</i>	Yellow-crested Spangle	Swallowtails
<i>Papilio helenus</i>	Red Helen	Swallowtails
<i>Papilio janaka</i>	Tailed Redbreast	Swallowtails
<i>Papilio krishna</i>	Krishna Peacock	Swallowtails
<i>Papilio liomedon</i>	Malabar Banded Swallowtail	Swallowtails
<i>Papilio machaon</i>	Common Yellow Swallowtail	Swallowtails
<i>Papilio memnon</i>	Great Mormon	Swallowtails
<i>Papilio nephelus</i>	Yellow Helen	Swallowtails
<i>Papilio paris</i>	Paris Peacock	Swallowtails
<i>Papilio paris tamilana</i>	Tamil Peacock	Swallowtails
<i>Papilio polyctor</i>	Common Peacock	Swallowtails
<i>Papilio polymnestor</i>	Blue Mormon	Swallowtails
<i>Papilio polytes</i>	Common Mormon	Swallowtails
<i>Papilio protenor</i>	Spangle	Swallowtails
<i>Parnassius acco</i>	Varnished Apollo	Apollos
<i>Parnassius actius</i>	Parnassius actius,	Apollos
<i>Parnassius charltonius</i>	Regal Apollo,	Apollos
<i>Parnassius epaphus</i>	Common Red Apollo,	Apollos
<i>Parnassius hardwickii</i>	Common Blue Apollo	Apollos
<i>Parnassius imperator augustus</i>	Imperial Apollo,	Apollos
<i>Parnassius jacquemontii</i>	Keeled Apollo,	Apollos
<i>Parnassius maharaja</i>	Maharaja Apollo	Apollos
<i>Parnassius simo</i>	Blackedged Apollo	Apollos
<i>Parnassius tianschianicus</i>	Large Keeled Apollo,	Apollos



Annexure VIII.10

Butterflies, Moths and Honey bees reported from the catchment and command areas of Ramganga project.

<i>Pieris brassicae</i>	Large Cabbage-White	The Whites
<i>Pieris canidia</i>	Indian Cabbage White	The Whites
<i>Pieris chumbiensis</i>	Chumbi White	The Whites
<i>Pieris krueperi devta</i>	Green Banded White	The Whites
<i>Pieris napi</i>	Greenvein White	The Whites
<i>Pieris rapae</i>	Small Cabbage White	The Whites
<i>Polyommatus loewii</i>	Large Jewel Blue	The blues
<i>Polyommatus sarta</i>	The Meadow Blues	The blues
<i>Polyura arja</i>	Pallid Nawab	The Nawabs
<i>Polyura athamas</i>	Common Nawab	The Nawabs
<i>Polyura delphis</i>	Jewelled Nawab	The Nawabs
<i>Polyura dolon</i>	Statelty Nawab	The Nawabs
<i>Polyura eudamippus</i>	Great Nawab	The Nawabs
<i>Polyura schreiberi</i>	Blue Nawab	The Nawabs
<i>Tajuria albiplaga</i>	Pallid Royal	The Royals
<i>Tajuria cippus</i>	Peacock Royal	The Royals
<i>Tajuria illurgioides</i>	Scarce White Royal	The Royals
<i>Tajuria jehana</i>	Plains Blue Royal	The Royals
<i>Tajuria maculata</i>	Spotted Royal	The Royals
<i>Tajuria sebonga</i>	Tytler's Royal	The Royals
<i>Tajuria thyia</i>	Dusky Royal	The Royals
<i>Tajuria yajna</i>	Chestnut and Black Royal	The blues
<i>Troides aeacus</i>	Golden Birdwing	Jays
<i>Troides helena</i>	Common Birdwing	Jays
<i>Troides minos</i>	Southern Birdwing	Jays
Honey bees recorded and reported		
<i>Apis florea</i>	Dwarf honey bee	Honey bee
<i>Apis dorsata</i>	Giant honey bee	Honey bee
<i>Apis mellifera</i>	Western honey bee	Honey bee
<i>Apis cerana</i>	Eastern honey bee	Honey bee



Annexure VIII.11

List of aquatic / semi aquatic macrophytes found along the borders of the Reservoirs, Rivers and Ponds in the catchment and command areas.

Latin name	Family	Status
<i>Acanthus ilicifolius</i>	Acanthaceae	Extensive and widespread
<i>Alternanthera philoxeroides</i>	Solanaceae	Predominant occasionally
<i>Aponogeton natans</i>	Aponogetonaceae	Common
<i>Arundo donax</i>	Poaceae	Widespread in wet and wastelands
<i>Azolla pinnata</i>	Azollaceae	Scattered and common
<i>Brachiaria mutica</i>	Poaceae	Sporadic
<i>Carex cruciata</i>	Cyperaceae	Occasional
<i>Centella asiatica</i>	Apiaceae	In localized patches
<i>Chrysopogon aciculatus</i>	Poaceae	Occasional
<i>Cynodon dactylon</i>	Poaceae	Extensive and widespread
<i>Cyperus arenarius</i>	Cyperaceae	Locally abundant
<i>Cyperus exaltatus</i>	Cyperaceae	Locally abundant
<i>Echinochloa colona</i>	Poaceae	Occasional
<i>Echinochloa stagnina</i>	Poaceae	Occasional
<i>Eichhornia crassipes</i>	Pontederiaceae	Extensive and widespread
<i>Hydrilla verticillata</i>	Hydrocharitaceae	Prevalent
<i>Ipomoea aquatica</i>	Convolvulaceae	Extensive and widespread
<i>Ludwigia perennis</i>	Onagraceae	Occasional
<i>Marsilia quadrifoliata</i>	Marsiliaceae	Very common Pteridophyte
<i>Nelumbo nucifera</i>	Nelumbiaceae	Very common
<i>Nymphaea nauchali</i>	Nymphaeaceae	Widely scattered
<i>Nymphaea stellata</i>	Nymphaeaceae	Widely scattered
<i>Nymphoides hydrophylla</i>	Nymphaeaceae	Scattered
<i>Nymphoides indica</i>	Nymphaeaceae	Scattered
<i>Ottelia alismoides</i>	Hydrocharitaceae	Widely scattered
<i>Oxalis corniculata</i>	Oxalidaceae	Occasional
<i>Paspalum geminatum</i>	Poaceae	Common
<i>Phragmites karka</i>	Poaceae	Common
<i>Pistia stratiotes</i>	Araceae	Widespread
<i>Salvinia cucullata</i>	Salviniaceae	Common
<i>Saccharum spontaneum</i>	Poaceae	Common
<i>Typha angustata</i>	Typhaceae	Extensive and widespread
<i>Typha elephantina</i>	Typhaceae	Limited to a few wetlands
<i>Vallisneria spiralis</i>	Hydrocharitaceae	Widespread



Annexure VIII.12		
Fish Frequency and Diversisty of the Ramganga River		
Phylum	Name of the genus	% Frequency
Botinae	<i>Botia almorhae</i>	40
Botinae	<i>Nemachelius botia</i>	40
Botinae	<i>Nemachelius montanus</i>	40
Cyprinidae	<i>Labeo dero</i>	20
Cyprinidae	<i>Schizothorax richardsonii</i>	20
Cyprinidae	<i>Barbus conchoniis</i>	30
Cyprinidae	<i>Barbus ticto</i>	30
Cyprinidae	<i>Garra lampta</i>	30
Cyprinidae	<i>Puntius ticto</i>	30
Cyprinidae	<i>Puntius conchoniis</i>	30
Cyprinidae	<i>Garra gotyla</i>	40
Cyprinidae	<i>Barilius bendelisis</i>	50
Cyprinidae	<i>Barilius vagra</i>	50
Cyprinidae	<i>Schizothorax plagiostomus</i>	50
Cyprinidae	<i>Tor putitora</i>	50
Cyprinidae	<i>Tor tor</i>	50
Mastacembellidae	<i>Mastacemballus armatus</i>	30
Sisoridae	<i>Luguvia sp</i>	10
Sisoridae	<i>Glyptothorax pectinoptrus</i>	30
Sisoridae	<i>Pseudoecheneis sulcatus</i>	40



Annexure VIII.13

Composition and Frequency of Zooplankton and Zoobenthos of the Ramganga River

Zooplankton		
Phylum	Name of the genus	% Frequency
Protozoa	<i>Arcella</i>	30
Protozoa	<i>Centropyxis</i>	40
Protozoa	<i>Diffugia</i>	90
Protozoa	<i>Volvox</i>	60
Protozoa	<i>Vorticella</i>	30
Rotifera	<i>Philodina</i>	50
Rotifera	<i>Trichocera</i>	30
Rotifera	<i>Asplanchna</i>	100
Rotifera	<i>Brachionus</i>	90
Rotifera	<i>Polyarthra</i>	20
Rotifera	<i>Pompholix</i>	70
Crustacea	<i>Bosmina</i>	30
Crustacea	<i>Ceriodaphnia</i>	70
Crustacea	<i>Cyclops</i>	80
Crustacea	<i>Daphnia</i>	70
Crustacea	<i>Helobdella</i>	50
Crustacea	<i>Nauplius</i>	90
Zoobenthos		
Ephemeroptera	<i>Ameleus</i>	20
Ephemeroptera	<i>Baetis</i>	90
Ephemeroptera	<i>Caenis</i>	90
Ephemeroptera	<i>Cynigima</i>	20
Ephemeroptera	<i>Ephemera</i>	100
Ephemeroptera	<i>Iron</i>	60
Ephemeroptera	<i>Leptophlebia</i>	90
Diptera	<i>Antoch</i>	20
Diptera	<i>Chironomus</i>	80
Diptera	<i>Dixa</i>	100
Diptera	<i>Simulium</i>	30
Coleoptera	<i>Hydraticus</i>	50
Coleoptera	<i>Laccobius</i>	60
Coleoptera	<i>Paedurus</i>	70



Annexure VIII.13

Composition and Frequency of Zooplankton and Zoobenthos of the Ramganga River

Coleoptera	<i>Potamonectes</i>	100
Coleoptera	<i>Stenolophus</i>	80
Trichoptera	<i>Glossoma</i>	20
Trichoptera	<i>Hydropsyche</i>	20
Trichoptera	<i>Limenephilus</i>	20
Trichoptera	<i>Stenopsyche</i>	40
Hemiptera	<i>Gerris</i>	60
Hemiptera	<i>Heleoceris</i>	70
Hemiptera	<i>Laccotrephes</i>	30
Hemiptera	<i>Micronecta</i>	100
Hemiptera	<i>Ptelomera</i>	70
Plecoptera	<i>Capnia</i>	50
Plecoptera	<i>Isoperla</i>	100
Plecoptera	<i>Kamimuria</i>	50
Plecoptera	<i>Perla</i>	100
Hemiptera	<i>Ranatra</i>	10
Odonata	<i>Agrion</i>	60
Odonata	<i>Corixa</i>	90
Odonata	<i>Matrona</i>	10
Odonata	<i>Rhinocypha</i>	30



Annexure – XII.1
P-1

Unit cost details for plantations in RDF areas

For high productivity of un irrigated teak plantations in RDF areas: Expenditure details for plantation.

Preparatory to plantation work(base year 2009-2010)				
Sl. no	Work Details	Volume of work	Rate	Amount in Rs per sq km
1.	Survey,demarcation and mapping	126.12 Ha	40.00 / Ha	5045.00
2.	Clearance of field	126.12 Ha	652.00 / Ha	82230.00
3.	Fencing			
	(a).Barbed wire fencing	750 R.M	156.00/ R.M	117000.00
	(b).Cattle proof trench in normal soil (1.50* 0.90*0.75 m)	500 R.M	46.50/R M	23250.00
	(c)CPT in murram soil (1.50* 0.90*0.75 m)	4650R M	65.15/RM	302947.00
	(d) Cattle proof stone fence size (1.5* 0.5* 1.00 m)	1400 RM	65.15 /RM	91210.00
4.	Staking	179000 Staks	186.20 / thousand staks	33330.00
5.	Pit digging (45 * 45 * 45 cm)			
	(a)Black/red and black soil	7000pits	4.65/pit	32550.00
	(b) Murram soil	172000 pits	6.50 / pit	1118000.00
6.	Change of soil			
	(a) Collection of fertile soil	179000 pits	1.50/ pit	268500.00
	(b) Transportation of soil by head load	179000 pits	1.10/ pit	196900.00
7.	Soil and water conservation work			
	(a) Contour trench (3.00* 0.45 * 0.45 m)	500CT	26.00/CT	13000.00
	(b) Check dam by dry rubbles	200CMT	93.10 / CMT	18620.00
8.	Preparation of plants	216000 plants	1.80 / plant	388800.00
9.	Other contingency work	-	Lump sum	5018.00
	TOTAL			2696400.00

Per ha expenditure 26964.00

Un irrigated Teak Plantation in RDF areas for higher productivity

1st year planting cost details for plantation and maintenance Base Year (2010-2011)				
Sl. no	Work details	Volume of work	Rate	Amount in Rs.per km2
1.	Preparation of Teak-pre sprouts-temp Nursery expenses	216000 plants	3.00 / plant	648000.00
2.	Pollard, stump dressing and cleaning of 1 meter radius	126.00 Ha	1040/Ha	131040.00
3.	Chemical fertilizer cost	180000 plants	LS	83664.00
4.	Transport of pre sprouts to the pl site	180000 plants	0.35/plant	63000.00
5.	Transport of poly pots to pits by head load	180000 plants	0.35/plant	63000.00
6.	Seed cost and sowing in contour trench	500 CT	LS	5000.00
7.	Pit planting (45*45*45 cm)	180000 plants	1.40/plant	252000.00
8.	Digging of pits(45*45*45 cm)	36000 pits	3.00 /pit	108000.00
9.	Casualty replacement up 10 Km	36000 plants	0.35/plant	12600.00
10.	Transportat of plants to pits	36000 plants	0.35/plant	12600.00
11.	Pit planting (45*45*45 cm)	36000 plants	1.40/plant	50400.00
12.	Purchase of chemical fertilizer	180000 plants	LS	83664.00
13.	First weeding soil works and pond, fertilizer application	180000 plants	0.90/plant	162000.00
14.	Weeding of naturally occurring weed plants in compartment	70000 plants	0.90/plant	63000.00
15.	Second weeding, hoeing, soil working	180000 plants	1.10/plant	198000.00
16.	Third weeding, hoeing, soil working	180000 plants	1.10/plant	198000.00
17.	Soil working and weeding	180000 plants	0.90/plant	162000.00
18.	Labour huts	3 units	5000.00/labour hut	15000.00
19.	Protection and maintenance for 9 months	4 labour	2421.00 labour charge/month	87156.00
20.	Fire protection work			
	(a) External fire line(12 m length)	7.3 Km	652.00/Km	4760.00
	(b) Internal fire line (6 m length)	15.0 Km	419.00/Km	6285.00
21.	Singling of naturally coppiced plants	126 Ha	200.00Ha	25200.00
22.	Inspection path	5.0 Km	2325.00/Km	11625.00
23.	Beating up of casualty of previous year(10 % expenditure)	18000 plants	3.00/plant	54000.00
24.	Contingent expenses		LS	19334.00
		TOTAL		2519328.00

Per Ha cost 25193.28

Annexure – XII.1
P-3

Un - irrigated Teak Plantation cost details in the 2nd year of planting

Plantation and Maintenance cost (2011-2012)				
Sl. no	Work details	Volume of work	Rate	Amount in Rs.per km2
1)	2 nd year plantation –mortality replacement preparation of teak presprout cost @ 10%	18000 plants	1.80/plant	32400.00
2)	Digging of pits (45*45*45 cm)	18000pits	3.00 /pit	54000.00
3)	Transportation of plants from nursery to plantation site up to 10 km	18000plants	0.35 /plant	6300.00
4)	Transport of plants to the pits by head load	18000 plants	0.35 / plant	6300.00
5)	Planting in the pits (45*45*45 cm)	18000 plants	1.40 / plant	25200.00
6)	First weeding, soil work and fertilizer application	180000 plants	0.90 / plant	162000.00
7)	Second weeding in soil working	150000 plants	1.10 / plant	165000.00
8)	Cost of fertilizer for next year	180000 plants	L S	119664.00
9)	Protection and maintenance (April 08 to march 09)	3 labour	2421.00 labour cost / month	87156.00
10)	Fire protection			
	(a)External fire line(12 m length)	7.3 km	652.00/ km	4760.00
	(b) Internal fire line (6 m length)	15.0 km	419.00 / km	6285.00
	Contingent expenses	-	LS	1307.00
	TOTAL			724372.00

Per Ha cost 7243.72

Un irrigated Teak plantation, unit cost details of IIIrd year of plantation Maintenance cost (2012-2013)

Sl. no	Work details	Volume of work	Rate	Amount in Rs.per km2
1.	Weeding ,soil working and application of fertilizer	180000 plants	0.90 /plant	162000.00
2.	Protection watch and ward and maintenance (1 st April 2009-31 st march 2010)	3 labour	2421.00 labour / month	87156.00
3.	Fire protection			
	(a). External fire lines(12 m length)	7.3 km	652.00 / km	4760.00
	(b) Internal fire lines(6 m length)	15.0 km	419.00 / km	6285.00
4.	Contingent expenses	-	LS	9799.00
	TOTAL			270000.00

Per Ha cost 2700.00

Un irrigated Teak plantation-unit cost in RDF for high productivity cost details Maintenance cost (2013 – 2014)

Sl. no	Work details	Volume of work	Rate	Amount in Rs.per km2
1.	Protection watch and ward and maintenance (from April 2010 to March 2011)	3 labour cost (2 labour for 1 year and 1 labour for 9 month)	2421.00/ labour / month	79893.00
2.	Fire protection			
	(a) External fire line(12 m length)	7.3 km	652.00 / km	4760.00
	(b)Internal fire line(6 m length)	15.0 km	419.00 / km	6285.00
3.	Contingent expenses	-	LS	2862.00
	TOTAL			93800.00

Per Ha cost 938.00

**Annexure – XII.1
P-5**

Plantation unit cost
Abstract expenditure

Sl..no	Year	Total cost (sq.km)	Per Ha cost
1.	2009-2010	2696400.00	26964.00
2.	2010-2011	2519328.00	25193.28
3.	2011-2012	724372.00	7243.72
4.	2012-2013	270000.00	2700.00
5.	2013-2014	93800.00	938.00
	TOTAL	6303900.00	63039.00

Say 63000.00

(+) 12600.00

total per Ha cost 75600.00

or say 75000.00 per Ha

(+) Probable cost escalation for four years @ 5 % per year from 2006-07 to 2010-11

Annexure – XII.2

Estimation of cost per hector per Green Belt plantation (500 plants)		
Sl. No	Particulars	Cost Rs. Per ha
1	Demarcation and survey	500
2	Cost of Plant material @ Rs. 10 per plant	5000
3	Digging of trenches 1.0 m X 0.5m X 0.3m (0.15 cum)	3000
4	Transplantation of plants @ Rs. 4.00 and filling per plant	2000
5	Internal transport of plants @ Rs. 1.00 per plant	500
6	Maintenance, care replacement of causalities, watch and ward Rs. 0.50 per plant per month for 5 years	15000
	Total per hectare	26000



Annexure XIII.1

MONTHLY STATEMENT SHOWING INSTITUTIONAL CASES AND DEATHS DUE TO PRINCIPAL COMMUNICABLE DISEASES							
SL. No	Name of Disease as per standard definition of case	2007		2009		2010	
		Patients Treated	Death	Patients Treated	Death	Patients Treated	Death
1	Acute Diarrhoeal diseases (including gastro enteritis and Cholera)	319846	116	453863	159	416141	164
2	Diphtheria	3	1	42	0	101	0
3	Whooping Cough	7045	0	12944	0	1159	0
4	Pneumonia	31513	33	99821	216	75983	238
5	Enteric Fever	28136	25	65096	72	66986	125
6	Viral Hepatitis	2056	11	1627	8	1773	3
7	Meningococcal Meningitis	659	124	64	10	43	5

Source: Compiled on the Basis of Information obtained from Department of Medical and Health, GoUP



Annexure XIII.2

District Wise Incidence of Water Born Diseases in Ramganga Command Districts (2009)

Sl. No	District	Acute Diarrhoeal diseases (including gastro enteritis and Cholera)		Diphtheria		Whooping Cough		Pneumonia		Enteric Fever		Viral Hepatitis		Meningococcal Meningitis	
		Total	Death	Total	Death	Total	Death	Total	Death	Total	Death	Total	Death	Total	Death
1	Aligarh	1934	7	0	0	0	0	985	14	11	0	1	0	0	0
2	Hathras	7364	1	0	0	1027	0	2262	2	1186	3	10	0	0	0
3	Mathura	8636	0	0	0	0	0	450	0	69	0	4	0	0	0
4	Agra	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Firozabad	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Etah	11	0	0	0	0	0	64	0	0	0	0	0	0	0
7	Mainpuri	2065	0	0	0	46	0	1724	0	2898	0	0	0	0	0
8	Farukkahabad	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Kannauj	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Etawah	8742	0	0	0	5	0	229	0	332	0	0	0	0	0
11	Auriya	24753	0	0	0	176	0	12008	0	9928	0	78	0	0	0



Annexure XIII.2

District Wise Incidence of Water Born Diseases in Ramganga Command Districts (2009)

Sl. No	District	Acute Diarrhoeal diseases (including gastro enteritis and Cholera)		Diphtheria		Whooping Cough		Pneumonia		Enteric Fever		Viral Hepatitis		Meningococcal Meningitis	
		Total	Death	Total	Death	Total	Death	Total	Death	Total	Death	Total	Death	Total	Death
12	Kanpur Dehat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kanpur nagar	9593	0	0	0	9	0	1034	0	201	0	68	0	8	0
14	Fathepur	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Kaushambi	3368	5	3	0	10	0	1937	5	929	3	204	2	38	4
16	Allahabad	508	0	0	0	1	0	196	0	369	0	13	0	0	0
Total		66974	13	3	0	1274	0	20889	21	15923	6	378	2	46	4
Ave		4185.88	0.81	0.19	0.00	79.63	0.00	1305.56	1.31	995.19	0.38	23.63	0.13	2.88	0.25
State Total		453863	159	42	0	12944	0	99821	216	65096	72	1627	8	64	10
State Ave		6392.44	2.24	0.59	0.00	182.31	0.00	1405.93	3.04	916.85	1.01	22.92	0.11	0.90	0.14

Source: Compiled on the Basis of Information obtained from Department of Medical and Health, GoUP



Annexure XIII.3

District Wise Incidence of Water Born Diseases in Ramganga Command Districts (2010)

Sl. No	District	Acute Diarrhoeal diseases (including gastro enteritis and Cholera)		Diphtheria		Whooping Cough		Pneumonia		Enteric Fever		Viral Hepatitis		Meningococcal Meningitis	
		Total	Death	Total	Death	Total	Death	Total	Death	Total	Death	Total	Death	Total	Death
1	Agra	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Aligarh	4404	1	0	0	14	0	1049	4	458	0	10	0	0	0
3	Allahabad	13613	0	0	0	1	0	1684	0	4735	0	2	0	0	0
4	Auriya	20388	0	0	0	37	0	6703	0	11094	0	27	0	0	0
5	Etah	0	0	0	0	0	0	32	0	0	0	0	0	0	0
6	Etawah	7152	0	0	0	5	0	406	0	418	0	0	0	0	0
7	Farukkahabad	2	0	0	0	0	0	5	0	31	0	0	0	0	0
8	Fathepur	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Firozabad	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	Hathras	7233	0	39	0	0	0	990	0	807	0	7	0	0	0
11	Kannauj	8014	2	0	0	5	0	1638	0	72	0	0	0	0	0



Annexure XIII.3

District Wise Incidence of Water Born Diseases in Ramganga Command Districts (2010)

Sl. No	District	Acute Diarrhoeal diseases (including gastro enteritis and Cholera)		Diphtheria		Whooping Cough		Pneumonia		Enteric Fever		Viral Hepatitis		Meningococcal Meningitis	
		Total	Death	Total	Death	Total	Death	Total	Death	Total	Death	Total	Death	Total	Death
12	Kanpur Dehat	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Kanpur nagar	8953	0	0	0	16	0	1806	3	629	0	12	0	0	0
14	Kaushambi	2789	6	6	0	9	0	926	8	746	0	120	0	14	3
15	Mainpuri	4728	0	0	0	19	0	2245	0	2673	0	0	0	0	0
16	Mathura	7471	0	0	0	0	0	458	0	144	0	6	0	0	0
Total		84747	9	45	0	106	0	17942	15	21807	0	184	0	14	3
Ave		5296.69	0.56	2.81	0.00	6.63	0.00	1121.38	0.94	1362.94	0.00	11.50	0.00	0.88	0.19
State Total		416141	164	101	0	1159	0	75983	238	66986	125	1773	3	43	5
Ave		5861.14	2.31	1.42	0.00	16.32	0.00	1070.18	3.35	943.46	1.76	24.97	0.04	0.61	0.07

Source: Compiled on the Basis of Information obtained from Department of Medical and Health, GoUP



Annexure-XIII.4

Disease-wise number of cases reported by sample households during 2009-10

Sl. No	District	Total population of sampled households	Malaria	Gastro-entities	Filarial	River blindness
1	Agra	184	2	6	2	5
2	Mathura	445	--	11	--	9
3	Aligarh	207	3	2	--	6
4	Etah	221	--	2	--	2
5	Mainpuri	398	--	10	--	13
6	Etawah	361	1	6	--	10
7	Auraiya	213	2	5	--	10
8	Kannauj	213	1	2	--	1
9	Kanpur nagar	178	3	3	--	2
10	Kanpur Dehat (Ramabainagar)	192	2	1	--	2
11	Fatehpur	198	2	3	--	--
12	Kaushambi	203	3	6	1	1
Total		3013	19	57	3	61

Source: – Field Survey.

Note:- No minor was selected in Firozabad, Mahamayanagar, Kanshiramnagar, Farrukhabad and Allahabad district

